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; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 142
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-142
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Query Match      78.8%   Score 78;   DB 11;   Length 16;
Best Local Similarity 75.0%   Pred. No. 0.00012;
Matches 12;   Conservative 2;   Mismatches 2;   Indels 0;   Gaps 0;
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QY      1 DWVCEFDKLOWVCNVL 16
      |||||: |||||
Db      1 DWVCEWLKMQWACNVL 16
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Search completed: September 8, 2004, 15:58:35
Job time : 43.85 secs
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:58:43 ; Search time 13.3 Seconds
(without alignments)
62.106 Million cell updates/sec

Title: US-09-825-517A-135
Perfect score: 99
Sequence: 1 DWVCEFDKLOWVCNVL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Parents AA:
1: /cgn2_6/ptodata/2/iaa/5A.COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B.COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A.COMB.pep.*
4: /cgn2_6/ptodata/2/iaa/6B.COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/PTCUS.COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----|-------------------|
| 1 | 50 | 50.5 | 21 | 4 | US-09-337-227C-27 |
| 2 | 50 | 50.5 | 21 | 4 | US-09-723-251A-27 |
| 3 | 45 | 45.5 | 20 | 1 | US-08-484-135-62 |
| 4 | 45 | 45.5 | 20 | 1 | US-08-484-135-62 |
| 5 | 45 | 45.5 | 20 | 2 | US-08-484-635-37 |
| 6 | 45 | 45.5 | 20 | 2 | US-08-827-570-37 |
| 7 | 44 | 44.4 | 20 | 1 | US-08-484-135-78 |
| 8 | 44 | 44.4 | 20 | 1 | US-08-484-635-40 |
| 9 | 44 | 44.4 | 20 | 2 | US-08-484-631-40 |
| 10 | 44 | 44.4 | 20 | 2 | US-08-827-570-40 |
| 11 | 44 | 44.4 | 23 | 1 | US-08-484-635-56 |
| 12 | 44 | 44.4 | 23 | 2 | US-08-484-631-56 |
| 13 | 44 | 44.4 | 23 | 2 | US-08-827-570-56 |
| 14 | 43 | 43.4 | 18 | 3 | US-09-052-888-97 |
| 15 | 43 | 43.4 | 18 | 4 | US-09-723-890-97 |
| 16 | 43 | 43.4 | 18 | 4 | US-09-723-901-97 |
| 17 | 43 | 43.4 | 18 | 4 | US-09-723-547-97 |
| 18 | 43 | 43.4 | 18 | 4 | US-09-724-127-97 |
| 19 | 43 | 43.4 | 18 | 4 | US-09-723-931-97 |
| 20 | 43 | 43.4 | 18 | 4 | US-09-723-873-97 |
| 21 | 43 | 43.4 | 18 | 4 | US-09-724-114-97 |
| 22 | 43 | 43.4 | 18 | 4 | US-09-723-913-97 |
| 23 | 43 | 43.4 | 24 | 1 | US-08-484-635-116 |
| 24 | 43 | 43.4 | 24 | 2 | US-08-484-631-116 |
| 25 | 43 | 43.4 | 24 | 2 | US-08-827-570-116 |
| 26 | 42 | 42.4 | 20 | 1 | US-08-484-135-10 |
| 27 | 42 | 42.4 | 20 | 1 | US-08-484-135-76 |

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|----|------|------|------|---|---------------------|-------------------|
| 28 | 42 | 42.4 | 20 | 1 | US-08-484-635-10 | Sequence 10, Appl |
| 29 | 42 | 42.4 | 20 | 2 | US-08-484-631-10 | Sequence 10, Appl |
| 30 | 42 | 42.4 | 20 | 2 | US-08-827-570-10 | Sequence 10, Appl |
| 31 | 42 | 42.4 | 20 | 3 | US-08-905-310-4 | Sequence 4, Appl |
| 32 | 42 | 42.4 | 20 | 4 | US-09-428-082B-90 | Sequence 90, Appl |
| 33 | 42 | 42.4 | 20 | 4 | US-09-428-082B-1029 | Sequence 1029, Ap |
| 34 | 42 | 42.4 | 22 | 1 | US-08-484-635-181 | Sequence 181, App |
| 35 | 42 | 42.4 | 22 | 2 | US-08-484-631-181 | Sequence 181, App |
| 36 | 42 | 42.4 | 22 | 2 | US-08-827-570-181 | Sequence 181, App |
| 37 | 42 | 42.4 | 26 | 1 | US-08-484-635-92 | Sequence 92, Appl |
| 38 | 42 | 42.4 | 26 | 2 | US-08-484-631-92 | Sequence 92, Appl |
| 39 | 42 | 42.4 | 26 | 2 | US-08-827-570-92 | Sequence 92, Appl |
| 40 | 42 | 42.4 | 125 | 4 | US-09-134-001C-5285 | Sequence 5285, Ap |
| 41 | 41.5 | 41.9 | 41 | 2 | US-08-568-459A-20 | Sequence 20, Appl |
| 42 | 41.5 | 41.9 | 41 | 2 | US-08-487-826B-32 | Sequence 32, Appl |
| 43 | 41.5 | 41.9 | 41 | 4 | US-09-210-288-20 | Sequence 20, Appl |
| 44 | 41.5 | 41.9 | 2710 | 2 | US-08-568-459A-12 | Sequence 12, Appl |
| 45 | 41.5 | 41.9 | 2710 | 2 | US-08-487-826B-12 | Sequence 12, Appl |

ALIGNMENTS

RESULT 1
US-09-337-227C-27
; Sequence 27, Application US/09337227C
; Patent No. 6420518
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: PI071P2 rev
; CURRENT APPLICATION NUMBER: US/09/337,227C
; CURRENT FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/052,888
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6420518
US-09-337-227C-27

Query Match 50.5%; Score 50; DB 4; Length 21;
Best Local Similarity 58.3%; Pred. No. 0.24;
Matches 7; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy 2 WVCEFDKLOWVC 13
||| |||:
Db 3 WVCRAGPLQWLC 14

RESULT 2
US-09-723-251A-27
; Sequence 27, Application US/09723251A
; Patent No. 6608028
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES

FILE REFERENCE: P1071P2C1.2Rev
 CURRENT APPLICATION NUMBER: US/09/723,251A
 PRIOR FILING DATE: 2000-11-27
 PRIOR APPLICATION NUMBER: US 09/337,227
 PRIOR FILING DATE: 1999-06-22
 PRIOR APPLICATION NUMBER: US 08/825,852
 PRIOR FILING DATE: 1997-04-04
 NUMBER OF SEQ ID NOS: 51
 SEQ ID NO 27
 LENGTH: 21
 TYPE: PRT
 ORGANISM: Artificial sequence
 FEATURE:
 OTHER INFORMATION: Sequence is synthesized
 Patent No. 6608028
 US-09-723-251A-27

Query Match 50.5%; Score 50; DB 4; Length 21;
 Best Local Similarity 58.3%; Pred. No. 0.24;
 Matches 7; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy 2 WVCFDFKLOWVC 13
 |||||
 Db 3 WVCRAQLWLC 14

RESULT 3
 US-08-484-135-62
 ; Sequence 62, Application US/08484135
 ; Patent No. 5767078
 ; GENERAL INFORMATION:
 ; APPLICANT: Johnson, Dana L
 ; APPLICANT: Zivin, Robert A
 ; TITLE OF INVENTION: AGONIST PEPTIDE DIMERS
 ; NUMBER OF SEQUENCES: 93
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Frank S. Digiglio
 ; STREET: 400 Garden City Plaza
 ; CITY: Garden City
 ; STATE: New York
 ; COUNTRY: U.S.A.
 ; ZIP: 11530
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/484,135
 ; FILING DATE: 07-JUN-1995
 ; CLASSIFICATION: 514
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Digiglio, Frank S
 ; REGISTRATION NUMBER: 31,346
 ; REFERENCE/DOCKET NUMBER: 9594
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (516) 742-4343
 ; TELEFAX: (516) 742-4366
 ; INFORMATION FOR SEQ ID NO: 62:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 20 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: peptide
 ; US-08-484-135-62

Query Match 45.5%; Score 45; DB 1; Length 20;
 Best Local Similarity 53.8%; Pred. No. 1.3;
 Matches 7; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

Qy 1 DWCFDFKLOWVC 13
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Db 3 DYNCRFGPLTWVC 15

RESULT 4
 US-08-484-635-37
 ; Sequence 37, Application US/08484635
 ; Patent No. 5773569
 ; GENERAL INFORMATION:
 ; APPLICANT: Wrighton, Nicholas C.
 ; APPLICANT: Dower, William J.
 ; APPLICANT: Chang, Ray S.
 ; APPLICANT: Kashyap, Arun K.
 ; APPLICANT: Jolliffe, Linda K.
 ; APPLICANT: Johnson, Dana
 ; APPLICANT: Mulcany, Linda
 ; TITLE OF INVENTION: Compounds and Peptides That Bind to the
 ; TITLE OF INVENTION: Erythropoietin Receptor
 ; NUMBER OF SEQUENCES: 259
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Townsend and Townsend and Crew
 ; STREET: One Market Plaza, Steuart Street Tower
 ; CITY: San Francisco
 ; STATE: California
 ; COUNTRY: USA
 ; ZIP: 94105-1492
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/484,635
 ; FILING DATE: 07-JUN-1995
 ; CLASSIFICATION: 514
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/155,940
 ; FILING DATE: 19-NOV-1993
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Garrett-Wackowski, Eugenia
 ; REGISTRATION NUMBER: 37,330
 ; REFERENCE/DOCKET NUMBER: 16528A-43-1-1
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (415) 543-9600
 ; TELEFAX: (415) 543-5043
 ; INFORMATION FOR SEQ ID NO: 37:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 20 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS:
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: peptide
 ; US-08-484-635-37

Query Match 45.5%; Score 45; DB 1; Length 20;
 Best Local Similarity 53.8%; Pred. No. 1.3;
 Matches 7; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

Qy 1 DWCFDFKLOWVC 13
 |||||
 Db 3 DYNCRFGPLTWVC 15

RESULT 5
 US-08-484-631-37
 ; Sequence 37, Application US/08484631
 ; Patent No. 5830851
 ; GENERAL INFORMATION:
 ; APPLICANT: Wrighton, Nicholas C.
 ; APPLICANT: Dower, William J.
 ; APPLICANT: Chang, Ray S.
 ; APPLICANT: Kashyap, Arun K.
 ; APPLICANT: Jolliffe, Linda K.
 ; APPLICANT: Johnson, Dana


```
; APPLICANT: Mulcahy, Linda
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; TITLE OF INVENTION: Erythropoietin Receptor
; NUMBER OF SEQUENCES: 259
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,631
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/155,940
; FILING DATE: 19-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER: 16528A-43-1-2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 37:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-484-631-37

Query Match 45.5%; Score 45; DB 2; Length 20;
Best Local Similarity 53.8%; Pred. No. 1.3;
Matches 7; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

Qy 1 DWCEPDKLOWVC 13
|:|:|:|:|
Db 3 DYNCRFGPLTWVC 15

RESULT 6
US-08-827-570-37
; Sequence 37, Application US/08827570
; Patent No. 5986047
; GENERAL INFORMATION:
; APPLICANT: Wrighton, Nicholas C.
; APPLICANT: Dower, William J.
; APPLICANT: Chang, Ray S.
; APPLICANT: Kashyap, Arun K.
; APPLICANT: Jolliffe, Linda K.
; APPLICANT: Johnson, Dana
; APPLICANT: Mulcahy, Linda
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; TITLE OF INVENTION: Erythropoietin Receptor
; NUMBER OF SEQUENCES: 259
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
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; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/827,570
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/484,635
; FILING DATE: 07-JUN-1995
; APPLICATION NUMBER: US 08/155,940
; FILING DATE: 19-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER: 16528A-43-1-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 37:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-827-570-37

Query Match 45.5%; Score 45; DB 2; Length 20;
Best Local Similarity 53.8%; Pred. No. 1.3;
Matches 7; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

Qy 1 DWCEPDKLOWVC 13
|:|:|:|:|
Db 3 DYNCRFGPLTWVC 15

RESULT 7
US-08-484-135-78
; Sequence 78, Application US/08484135
; Patent No. 5767078
; GENERAL INFORMATION:
; APPLICANT: Johnson, Dana L
; APPLICANT: Zivin, Robert A
; TITLE OF INVENTION: AGONIST PEPTIDE DIMERS
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Frank S. DiGiglio
; STREET: 400 Garden City Plaza
; CITY: Garden City
; STATE: New York
; COUNTRY: U.S.A..
; ZIP: 11530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,135
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: DiGiglio, Frank S
; REGISTRATION NUMBER: 31,346
; REFERENCE/DOCKET NUMBER: 9594
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (516) 742-4343
; TELEFAX: (516) 742-4366
; INFORMATION FOR SEQ ID NO: 78:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
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TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-484-135-78

Query Match 44.4%; Score 44; DB 1; Length 20;
Best Local Similarity 46.2%; Pred. No. 1.9;
Matches 6; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 1 DWVCEFDKLOWVC 13
: : : : :
Db 3 DYVCRMGPMTWVC 15

RESULT 8

US-08-484-635-40
Sequence 40, Application US/08484635
Patent No. 5773569

GENERAL INFORMATION:

APPLICANT: Wrighton, Nicholas C.
APPLICANT: Dower, William J.
APPLICANT: Chang, Ray S.
APPLICANT: Kashyap, Arun K.
APPLICANT: Jolliffe, Linda K.
APPLICANT: Johnson, Dana
APPLICANT: Mulcahy, Linda

TITLE OF INVENTION: Compounds and Peptides That Bind to the
TITLE OF INVENTION: Erythropoietin Receptor

NUMBER OF SEQUENCES: 259

CORRESPONDENCE ADDRESS:

ADDRESSEE: Townsend and Townsend and Crew
STREET: One Market Plaza, Steuart Street Tower
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105-1492

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/484,635

FILING DATE: 07-JUN-1995

CLASSIFICATION: 514

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/155,940

FILING DATE: 19-NOV-1993

ATTORNEY/AGENT INFORMATION:

NAME: Garrett-Wackowski, Eugenia

REGISTRATION NUMBER: 37,330

REFERENCE/DOCKET NUMBER: 16528A-43-1-1

TELECOMMUNICATION INFORMATION:

TELEPHONE: (415) 543-9600

TELEFAX: (415) 543-5043

INFORMATION FOR SEQ ID NO: 40:

SEQUENCE CHARACTERISTICS:

LENGTH: 20 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

MOLECULE TYPE: peptide

US-08-484-635-40

Query Match

Best Local Similarity 44.4%; Score 44; DB 1; Length 20;
Matches 6; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 1 DWVCEFDKLOWVC 13
: : : : :
Db 3 DYVCRMGPMTWVC 15

RESULT 9

US-08-484-631-40
Sequence 40, Application US/08484631
Patent No. 5830851

GENERAL INFORMATION:

APPLICANT: Wrighton, Nicholas C.
APPLICANT: Dower, William J.
APPLICANT: Chang, Ray S.
APPLICANT: Kashyap, Arun K.
APPLICANT: Jolliffe, Linda K.
APPLICANT: Johnson, Dana
APPLICANT: Mulcahy, Linda

TITLE OF INVENTION: Compounds and Peptides That Bind to the
TITLE OF INVENTION: Erythropoietin Receptor

NUMBER OF SEQUENCES: 259

CORRESPONDENCE ADDRESS:

ADDRESSEE: Townsend and Townsend and Crew
STREET: One Market Plaza, Steuart Street Tower
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105-1492

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/484,631

FILING DATE: 07-JUN-1995

CLASSIFICATION: 514

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/155,940

FILING DATE: 19-NOV-1993

ATTORNEY/AGENT INFORMATION:

NAME: Garrett-Wackowski, Eugenia

REGISTRATION NUMBER: 37,330

REFERENCE/DOCKET NUMBER: 16528A-43-1-2

TELECOMMUNICATION INFORMATION:

TELEPHONE: (415) 543-9600

TELEFAX: (415) 543-5043

INFORMATION FOR SEQ ID NO: 40:

SEQUENCE CHARACTERISTICS:

LENGTH: 20 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

MOLECULE TYPE: peptide

US-08-484-631-40

Query Match

Best Local Similarity 44.4%; Score 44; DB 2; Length 20;
Matches 6; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 1 DWVCEFDKLOWVC 13
: : : : :
Db 3 DYVCRMGPMTWVC 15

RESULT 10

US-08-827-570-40

Sequence 40, Application US/08827570

Patent No. 5986047

GENERAL INFORMATION:

APPLICANT: Wrighton, Nicholas C.
APPLICANT: Dower, William J.

APPLICANT: Chang, Ray S.

APPLICANT: Kashyap, Arun K.

APPLICANT: Jolliffe, Linda K.

APPLICANT: Johnson, Dana

APPLICANT: Mulcahy, Linda

TITLE OF INVENTION: Compounds and Peptides That Bind to the

TITLE OF INVENTION: Erythropoietin Receptor

NUMBER OF SEQUENCES: 259

```
;
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/827,570
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/484,635
; FILING DATE: 07-JUN-1995
; APPLICATION NUMBER: US 08/155,940
; FILING DATE: 19-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER: 16528A-43-1-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 40:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-827-570-40

Query Match 44.4%; Score 44; DB 2; Length 20;
Best Local Similarity 46.2%; Pred. No. 1.9;
Matches 6; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 DWCFDKLOWVC 13
   | : | |
   | : | |
Db 3 DYVCRMGPMWVC 15

RESULT 11
US-08-484-635-56
; Sequence 56, Application US/08484635
; Patent No. 5773569
; GENERAL INFORMATION:
; APPLICANT: Wrighton, Nicholas C.
; APPLICANT: Dower, William J.
; APPLICANT: Chang, Ray S.
; APPLICANT: Kashvap, Arun K.
; APPLICANT: Jolliffe, Linda K.
; APPLICANT: Johnson, Dana
; APPLICANT: Mulcahy, Linda
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; TITLE OF INVENTION: Erythropoietin Receptor
; NUMBER OF SEQUENCES: 259
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
```

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;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,635
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/155,940
; FILING DATE: 19-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER: 16528A-43-1-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 56:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 23 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-484-635-56

Query Match 44.4%; Score 44; DB 1; Length 23;
Best Local Similarity 46.2%; Pred. No. 2.2;
Matches 6; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 DWCFDKLOWVC 13
   | : | |
   | : | |
Db 3 DYVCRMGPMWVC 15

RESULT 12
US-08-484-631-56
; Sequence 56, Application US/08484631
; Patent No. 5830851
; GENERAL INFORMATION:
; APPLICANT: Wrighton, Nicholas C.
; APPLICANT: Dower, William J.
; APPLICANT: Chang, Ray S.
; APPLICANT: Kashvap, Arun K.
; APPLICANT: Jolliffe, Linda K.
; APPLICANT: Johnson, Dana
; APPLICANT: Mulcahy, Linda
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; TITLE OF INVENTION: Erythropoietin Receptor
; NUMBER OF SEQUENCES: 259
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,631
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/155,940
; FILING DATE: 19-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER: 16528A-43-1-2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
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; INFORMATION FOR SEQ ID NO: 56:

; SEQUENCE CHARACTERISTICS:
; LENGTH: 23 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-484-631-56

Query Match 44.4%; Score 44; DB 2; Length 23;
Best Local Similarity 46.2%; Pred. No. 2.2;
Matches 6; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 1 DWVCEFDKLOWVC 13
|:|:|:|:|:
Db 3 DYVCRMGPMTWVC 15

RESULT 13

US-08-827-570-56
; Sequence 56, Application US/08827570
; Patent No. 5986047

; GENERAL INFORMATION:

; APPLICANT: Wrighton, Nicholas C.
; APPLICANT: Dower, William J.
; APPLICANT: Chang, Ray S.
; APPLICANT: Kashyap, Arun K.
; APPLICANT: Jolliffe, Linda K.
; APPLICANT: Johnson, Dana
; APPLICANT: Mulcahy, Linda
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; TITLE OF INVENTION: Erythropoietin Receptor
; NUMBER OF SEQUENCES: 259

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA

; ZIP: 94105-1492

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/827,570
; FILING DATE:

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/484,635
; FILING DATE: 07-JUN-1995
; APPLICATION NUMBER: US 08/155,940
; FILING DATE: 19-NOV-1993

; ATTORNEY/AGENT INFORMATION:

; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330

; REFERENCE/DOCKET NUMBER: 16528A-43-1-1

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043

; INFORMATION FOR SEQ ID NO: 56:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 23 amino acids

; TYPE: amino acid

; STRANDEDNESS:

; TOPOLOGY: linear

; MOLECULE TYPE: peptide

US-08-827-570-56

Query Match 44.4%; Score 44; DB 2; Length 23;
Best Local Similarity 46.2%; Pred. No. 2.2;
Matches 6; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 1 DWVCEFDKLOWVC 13
|:|:|:|:|:
Db 3 DYVCRMGPMTWVC 15

RESULT 14

US-09-052-888-97
; Sequence 97, Application US/09052888
; Patent No. 6251865

; GENERAL INFORMATION:

; APPLICANT: Clark, Ross G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; TITLE OF INVENTION: Insulin-like Growth Factor Agonist Molecules
; NUMBER OF SEQUENCES: 109

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Genentech, Inc.

; STREET: 1 DNA Way

; CITY: South San Francisco

; STATE: California

; COUNTRY: USA

; ZIP: 94080

; COMPUTER READABLE FORM:

; MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: WinPatIn (Genentech)

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/052,888

; FILING DATE: 31-Mar-1998

; CLASSIFICATION: 514

; ATTORNEY/AGENT INFORMATION:

; NAME: Hasak, Janet E.

; REGISTRATION NUMBER: 28,616

; REFERENCE/DOCKET NUMBER: P1071P1

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 650/225-1896

; TELEFAX: 650/952-9881

; INFORMATION FOR SEQ ID NO: 97:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 18 amino acids

; TYPE: Amino Acid

; TOPOLOGY: Linear

US-09-052-888-97

Query Match 43.4%; Score 43; DB 3; Length 18;
Best Local Similarity 40.0%; Pred. No. 2.4;
Matches 6; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCEFDKLOWVCNV 15
|:|:|:|:|:
Db 2 BMVCRAGPLQWLCEI 16

RESULT 15

US-09-723-890-97

; Sequence 97, Application US/09723890

; Patent No. 6608031

; GENERAL INFORMATION:

; APPLICANT: Clark, Ross G.

; Robinson, Iain C.A.F.

; TITLE OF INVENTION: Insulin-like Growth Factor Agonist Molecules

; NUMBER OF SEQUENCES: 109

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Genentech, Inc.

; STREET: 1 DNA Way

; CITY: South San Francisco

; STATE: California

; COUNTRY: USA

; ZIP: 94080

; COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatIn (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/723,890
FILING DATE: 28-Mar-2000
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/052,888
FILING DATE: 31-Mar-1998
ATTORNEY/AGENT INFORMATION:
NAME: Hasak, Janet E.
REGISTRATION NUMBER: 28,616
REFERENCE/DOCKET NUMBER: P1071P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650/225-1896
TELEFAX: 650/952-9881
INFORMATION FOR SEQ ID NO: 97:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 amino acids
TYPE: Amino Acid
TOPOLOGY: Linear
SEQUENCE DESCRIPTION: SEQ ID NO: 97:
US-09-723-890-97

Query Match 43.4%; Score 43; DB 4; Length 18;
Best Local Similarity 40.0%; Pred. No. 2.4;
Matches 6; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCEFDKLOWVCNV 15
Db 2 EMVCRAGPLQWLCEI 16

Search completed: September 8, 2004, 14:31:48
Job time : 13.3 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds
(without alignments)
114.961 Million cell updates/sec

Title: US-09-825-517A-134
Perfect score: 109
Sequence: 1 DWICNLFKNQWFCDAW 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues 1298764
Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:
1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
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15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
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17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|--------------------|
| 1 | 109 | 100.0 | 16 | 11 | US-09-825-517A-57 |
| 2 | 109 | 100.0 | 16 | 11 | US-09-825-517A-134 |
| 3 | 104 | 95.4 | 16 | 11 | US-09-825-517A-58 |
| 4 | 103 | 94.5 | 16 | 11 | US-09-825-517A-53 |
| 5 | 99 | 90.8 | 16 | 11 | US-09-825-517A-119 |
| 6 | 98 | 89.9 | 16 | 11 | US-09-825-517A-47 |
| 7 | 97 | 89.0 | 16 | 11 | US-09-825-517A-81 |
| 8 | 94 | 86.2 | 16 | 11 | US-09-825-517A-39 |
| 9 | 94 | 86.2 | 16 | 11 | US-09-825-517A-45 |
| 10 | 94 | 86.2 | 16 | 11 | US-09-825-517A-48 |
| 11 | 94 | 86.2 | 16 | 11 | US-09-825-517A-64 |
| 12 | 94 | 86.2 | 16 | 11 | US-09-825-517A-77 |
| 13 | 94 | 86.2 | 16 | 11 | US-09-825-517A-121 |
| 14 | 94 | 86.2 | 16 | 11 | US-09-825-517A-131 |
| 15 | 93 | 85.3 | 16 | 11 | US-09-825-517A-38 |

| | | | | | | |
|----|----|------|----|----|--------------------|--------------------|
| 16 | 93 | 85.3 | 16 | 11 | US-09-825-517A-42 | Sequence 42, Appl |
| 17 | 93 | 85.3 | 16 | 11 | US-09-825-517A-52 | Sequence 52, Appl |
| 18 | 93 | 85.3 | 16 | 11 | US-09-825-517A-62 | Sequence 62, Appl |
| 19 | 93 | 85.3 | 16 | 11 | US-09-825-517A-73 | Sequence 73, Appl |
| 20 | 93 | 85.3 | 16 | 11 | US-09-825-517A-74 | Sequence 74, Appl |
| 21 | 93 | 85.3 | 16 | 11 | US-09-825-517A-83 | Sequence 83, Appl |
| 22 | 93 | 85.3 | 16 | 11 | US-09-825-517A-120 | Sequence 120, Appl |
| 23 | 93 | 85.3 | 16 | 11 | US-09-825-517A-124 | Sequence 124, Appl |
| 24 | 93 | 85.3 | 16 | 11 | US-09-825-517A-129 | Sequence 129, Appl |
| 25 | 93 | 85.3 | 16 | 11 | US-09-825-517A-136 | Sequence 136, Appl |
| 26 | 93 | 85.3 | 16 | 11 | US-09-825-517A-145 | Sequence 145, Appl |
| 27 | 92 | 84.4 | 16 | 11 | US-09-825-517A-79 | Sequence 79, Appl |
| 28 | 91 | 83.5 | 16 | 11 | US-09-825-517A-37 | Sequence 37, Appl |
| 29 | 91 | 83.5 | 16 | 11 | US-09-825-517A-43 | Sequence 43, Appl |
| 30 | 91 | 83.5 | 16 | 11 | US-09-825-517A-46 | Sequence 46, Appl |
| 31 | 91 | 83.5 | 16 | 11 | US-09-825-517A-84 | Sequence 84, Appl |
| 32 | 91 | 83.5 | 16 | 11 | US-09-825-517A-132 | Sequence 132, Appl |
| 33 | 89 | 81.7 | 16 | 11 | US-09-825-517A-40 | Sequence 40, Appl |
| 34 | 89 | 81.7 | 16 | 11 | US-09-825-517A-69 | Sequence 69, Appl |
| 35 | 89 | 81.7 | 16 | 11 | US-09-825-517A-71 | Sequence 71, Appl |
| 36 | 89 | 81.7 | 16 | 11 | US-09-825-517A-98 | Sequence 98, Appl |
| 37 | 89 | 81.7 | 16 | 11 | US-09-825-517A-108 | Sequence 108, Appl |
| 38 | 88 | 80.7 | 16 | 11 | US-09-825-517A-41 | Sequence 41, Appl |
| 39 | 88 | 80.7 | 16 | 11 | US-09-825-517A-50 | Sequence 50, Appl |
| 40 | 88 | 80.7 | 16 | 11 | US-09-825-517A-61 | Sequence 61, Appl |
| 41 | 88 | 80.7 | 16 | 11 | US-09-825-517A-66 | Sequence 66, Appl |
| 42 | 88 | 80.7 | 16 | 11 | US-09-825-517A-89 | Sequence 89, Appl |
| 43 | 88 | 80.7 | 16 | 11 | US-09-825-517A-92 | Sequence 92, Appl |
| 44 | 88 | 80.7 | 16 | 11 | US-09-825-517A-99 | Sequence 99, Appl |
| 45 | 88 | 80.7 | 16 | 11 | US-09-825-517A-128 | Sequence 128, Appl |

ALIGNMENTS

RESULT 1
US-09-825-517A-57
; Sequence 57, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825.517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 57
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-57

| | | | | |
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| Query Match | 100.0% | Score 109; | DB 11; | Length 16; |
| Best Local Similarity | 100.0% | Pred. No. 5.9e-08; | | |
| Matches 16; | Conservative 0; | Mismatches 0; | Indels 0; | Gaps 0; |
| Qy | 1 | DWICNLFKNQWFCDAW 16 | | |
| Db | 1 | DWICNLFKNQWFCDAW 16 | | |

RESULT 2
US-09-825-517A-134
; Sequence 134, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

```
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 134
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-134
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Query Match 100.0%; Score 109; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 5.9e-08;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 DWICNLFKNQWFCDAW 16
||:|||||
Db 1 DWICNLFKNQWFCDAW 16
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RESULT 3
US-09-825-517A-58
; Sequence 58, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 58
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-58
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Query Match 95.4%; Score 104; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 2.8e-07;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
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QY 1 DWICNLFKNQWFCDAW 16
||:|||||
Db 1 DWICNLFKNQWFCDAW 16
```

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RESULT 4
US-09-825-517A-53
; Sequence 53, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
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; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 53
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-53
```

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Query Match 94.5%; Score 103; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 3.7e-07;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
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```
QY 1 DWICNLFKNQWFCDAW 16
||:|||||
Db 1 DWICNLFKNQWFCDAW 16
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```
RESULT 5
US-09-825-517A-119
; Sequence 119, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 119
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-119
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```
Query Match 90.8%; Score 99; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.3e-06;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 DWICNLFKNQWFCDAW 16
||:|||||
Db 1 DWICNLFKNQWFCDAW 16
```

```
RESULT 6
US-09-825-517A-47
; Sequence 47, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 47
; LENGTH: 16
; TYPE: PRT
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; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-47

Query Match      89.9%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.7e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDA 15
Db 1 DWICNLFKNQWFCDA 15

RESULT 7
US-09-825-517A-81
; Sequence 81, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 81
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-81

Query Match      89.0%; Score 97; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 2.4e-06;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDA 15
Db 1 DWVCNLFKNQWFCDA 15

RESULT 8
US-09-825-517A-39
; Sequence 39, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 39
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-39

Query Match      86.2%; Score 94; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 5.9e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCD 14
Db 1 DWICNLFKNQWFCD 14

RESULT 9
US-09-825-517A-45
; Sequence 45, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 45
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-45

Query Match      86.2%; Score 94; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 5.9e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCD 14
Db 1 DWICNLFKNQWFCD 14

RESULT 10
US-09-825-517A-48
; Sequence 48, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 48
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-48

Query Match      86.2%; Score 94; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 5.9e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCD 14
Db 1 DWICNLFKNQWFCD 14

```

```
RESULT 11
US-09-825-517A-64
; Sequence 64, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 64
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-64

Query Match      86.2%; Score 94; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 5.9e-06;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDA 15
Db 1 DWICNLFKNQWFCDA 15

RESULT 12
US-09-825-517A-77
; Sequence 77, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 77
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-77

Query Match      86.2%; Score 94; DB 11; Length 16;
Best Local Similarity 86.7%; Pred. No. 5.9e-06;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDA 15
Db 1 DWICNLFKNQWFCDS 15

RESULT 13
US-09-825-517A-121
; Sequence 121, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
```

```
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 121
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-121

Query Match      86.2%; Score 94; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 5.9e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCD 14
Db 1 DWICNLFKNQWFCD 14

RESULT 14
US-09-825-517A-131
; Sequence 131, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 131
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-131

Query Match      86.2%; Score 94; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 5.9e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCD 14
Db 1 DWICNLFKNQWFCD 14

RESULT 15
US-09-825-517A-38
; Sequence 38, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
```

; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 38
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-38

Query Match 85.3%; Score 93; DB 11; Length 16;
Best Local Similarity 92.9%; Pred. No. 8.1e-06;
Matches 13; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFC D 14
||:|||||
Db 1 DWVCNLFKNQWFC D 14

Search completed: September 8, 2004, 15:58:35
Job time : 43.85 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:58:43 ; Search time 13.3 Seconds
(without alignments)
62.106 Million cell updates/sec

Title: US-09-825-517A-134
Perfect score: 109
Sequence: 1 DWICNLFKNQWFCDAW 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA.*

1: /cgn2_6/ptodata/2/iaa/5A.COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B.COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A.COMB.pep.*
4: /cgn2_6/ptodata/2/iaa/6B.COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/PCTUS.COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|----------------------|
| 1 | 46.5 | 42.7 | 612 | 4 | US-09-252-991A-17516 |
| 2 | 46 | 42.2 | 478 | 4 | Sequence 17516, A |
| 3 | 45 | 41.3 | 215 | 3 | Sequence 2, Appli |
| 4 | 45 | 41.3 | 215 | 3 | Sequence 3, Appli |
| 5 | 44.5 | 40.8 | 220 | 4 | Sequence 13, Appli |
| 6 | 44 | 40.4 | 319 | 4 | Sequence 941, App |
| 7 | 44 | 40.4 | 1025 | 2 | Sequence 6404, Ap |
| 8 | 44 | 40.4 | 1026 | 2 | Sequence 23, Appli |
| 9 | 43 | 39.4 | 21 | 4 | Sequence 22, Appli |
| 10 | 43 | 39.4 | 21 | 4 | Sequence 27, Appli |
| 11 | 43 | 39.4 | 480 | 2 | Sequence 27, Appli |
| 12 | 43 | 39.4 | 480 | 2 | Sequence 8, Appli |
| 13 | 43 | 39.4 | 480 | 4 | Sequence 336, App |
| 14 | 43 | 39.4 | 480 | 4 | Sequence 336, App |
| 15 | 43 | 39.4 | 480 | 4 | Sequence 336, App |
| 16 | 43 | 39.4 | 480 | 4 | Sequence 336, App |
| 17 | 43 | 39.4 | 480 | 4 | Sequence 336, App |
| 18 | 42 | 38.5 | 582 | 3 | Sequence 336, App |
| 19 | 41.5 | 38.1 | 190 | 1 | Sequence 2, Appli |
| 20 | 41.5 | 38.1 | 190 | 3 | Sequence 1, Appli |
| 21 | 41.5 | 38.1 | 542 | 4 | Sequence 6, Appli |
| 22 | 41.5 | 38.1 | 542 | 4 | Sequence 6, Appli |
| 23 | 41.5 | 38.1 | 542 | 4 | Sequence 6, Appli |
| 24 | 41 | 37.6 | 498 | 1 | Sequence 9, Appli |
| 25 | 41 | 37.6 | 498 | 2 | Sequence 9, Appli |
| 26 | 41 | 37.6 | 498 | 5 | Sequence 9, Appli |
| 27 | 41 | 37.6 | 948 | 4 | Sequence 1105, Ap |

Sequence 1, Appli
Sequence 3, Appli
Sequence 4, Appli
Sequence 37, Appli
Sequence 17646, A
Sequence 28027, A
Sequence 29792, A
Sequence 201, App
Sequence 201, App
Sequence 23, Appli
Sequence 23, Appli
Sequence 4789, Ap
Sequence 22389, A
Sequence 3376, Ap
Sequence 6183, Ap
Sequence 7, Appli
Sequence 26, Appli
Sequence 28, Appli

28 41 37.6 960 4 US-09-345-650-1
29 41 37.6 2474 4 US-08-285-967C-3
30 41 37.6 2474 4 US-08-305-790B-4
31 40.5 37.2 570 4 US-09-437-568A-37
32 40 36.7 266 4 US-09-252-991A-17646
33 40 36.7 273 4 US-09-252-991A-28027
34 40 36.7 429 4 US-09-252-991A-29792
35 40 36.7 967 3 US-09-139-802-201
36 40 36.7 967 4 US-09-659-786-201
37 40 36.7 972 3 US-08-335-844A-23
38 40 36.7 972 4 US-09-129-366-23
39 40 36.7 1057 4 US-09-107-532A-4789
40 39 35.8 143 4 US-09-252-991A-22389
41 39 35.8 207 4 US-09-540-236-3376
42 39 35.8 312 4 US-09-543-681A-6183
43 39 35.8 326 2 US-08-671-978A-7
44 39 35.8 616 4 US-08-637-670-26
45 39 35.8 616 4 US-08-637-670-28

ALIGNMENTS

RESULT 1
US-09-252-991A-17516
; Sequence 17516, Application US/09252991A
; Patent No. 6551795

; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 17516
; LENGTH: 612
; TYPE: PPT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-17516

Query Match 42.7%; Score 46.5; DB 4; Length 612;
Best Local Similarity 50.0%; Pred. No. 87;
Matches 10; Conservative 0; Mismatches 5; Indels 5; Gaps 1;

Qy 2 WICNLFKN-----QWFCDAW 16
Db 54 WICNLFKNLGTWQSVAAAW 73

RESULT 2
US-09-137-223A-2
; Sequence 2, Application US/09137223A
; Patent No. 6420525
; GENERAL INFORMATION:
; APPLICANT: Yee, David P
; APPLICANT: Deisher, Theresa A
; TITLE OF INVENTION: TESTIS-SPECIFIC TRANSCRIPTION FACTOR
; FILE REFERENCE: 97-18
; CURRENT APPLICATION NUMBER: US/09/137,223A
; CURRENT FILING DATE: 1998-08-19
; PRIOR APPLICATION NUMBER: 06/056,130
; PRIOR FILING DATE: 1997-08-19
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 478
; TYPE: PPT

; ORGANISM: homo sapiens
US-09-137-223A-2

Query Match 42.2%; Score 46; DB 4; Length 478;
Best Local Similarity 41.7%; Pred. No. 79;
Matches 5; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWF 12
Db 322 EWLSSVYKQWF 333
! : : : : :
! : : : : :
! : : : : :

RESULT 3
US-09-131-028A-3
; Sequence 3, Application US/09131028A
; Patent No. 6287866
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Mukerji, Pradip
; APPLICANT: Lemmel, Steven A.
; APPLICANT: Leonard, Amanda Eun-Yeong
; APPLICANT: Chaudhary, Sunita
; TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS
; FILE REFERENCE: 6004.US.P1
; CURRENT APPLICATION NUMBER: US/09/131,028A
; CURRENT FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: US 08/064,440
; PRIOR FILING DATE: 1993-05-21
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 215
; TYPE: PRT
; ORGANISM: Homo sapiens

US-09-131-028A-3

Query Match 41.3%; Score 45; DB 3; Length 215;
Best Local Similarity 46.2%; Pred. No. 48;
Matches 6; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 2 WICNLFKNQWFD 14
Db 12 WFCGLRGNEFFCE 24
! : : : : :
! : : : : :
! : : : : :

RESULT 4
US-09-131-028A-13
; Sequence 13, Application US/09131028A
; Patent No. 6287866
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Mukerji, Pradip
; APPLICANT: Lemmel, Steven A.
; APPLICANT: Leonard, Amanda Eun-Yeong
; APPLICANT: Chaudhary, Sunita
; TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS
; FILE REFERENCE: 6004.US.P1
; CURRENT APPLICATION NUMBER: US/09/131,028A
; CURRENT FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: US 08/064,440
; PRIOR FILING DATE: 1993-05-21
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 215
; TYPE: PRT
; ORGANISM: Homo sapiens

US-09-131-028A-13

Query Match 41.3%; Score 45; DB 3; Length 215;
Best Local Similarity 46.2%; Pred. No. 48;
Matches 6; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 2 WICNLFKNQWFD 14
Db 12 WFCGLRGNEFFCE 24
! : : : : :
! : : : : :
! : : : : :

RESULT 5
US-09-198-452A-941
; Sequence 941, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
; APPLICANT: Griffois, R.

; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments thereof and uses thereof, in particular for the diagnosis, prevention and treatment of infection
; TITLE OF INVENTION: and treatment of infection
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 941
; LENGTH: 220
; TYPE: PRT
; ORGANISM: Chlamydia pneumoniae
US-09-198-452A-941

Query Match 40.8%; Score 44.5; DB 4; Length 220;
Best Local Similarity 52.6%; Pred. No. 58;
Matches 10; Conservative 0; Mismatches 6; Indels 3; Gaps 1;

QY 1 DWICNLFKNQW---FCDAW 16
Db 160 DWIWNFLTLQSEVFSQAW 178
! : : : : :
! : : : : :
! : : : : :

RESULT 6

US-09-328-352-6404
; Sequence 6404, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Brston et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: GTC99-03PA
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 6404
; LENGTH: 319
; TYPE: PRT
; ORGANISM: Acinetobacter baumannii
US-09-328-352-6404

Query Match 40.4%; Score 44; DB 4; Length 319;
Best Local Similarity 38.9%; Pred. No. 98;
Matches 7; Conservative 4; Mismatches 5; Indels 2; Gaps 1;

QY 1 DWICNLFK--NQWFCDAW 16
Db 100 DTMGIFEALNAWYCPAW 117
! : : : : :
! : : : : :
! : : : : :

RESULT 7

US-08-530-792D-23
; Sequence 23, Application US/08530792D
; Patent No. 5972860
; GENERAL INFORMATION:
; APPLICANT: Knowles, W. J.; Guralski, D.; Haigh, W.; Letsinger, J. T.;
; APPLICANT: Clairmont, K.; and Hart, J.
; TITLE OF INVENTION: Glucose Transporter Vesicle Aminopeptidase
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Bayer Corporation
; STREET: 400 Morgan Lane
; CITY: West Haven

```
; STATE: Connecticut
; COUNTRY: U.S.A.
; ZIP: 06516
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" diskette, 1.44 Mb Storage
; COMPUTER: Dell Windows 95 PC
; OPERATING SYSTEM: Windows 95
; SOFTWARE: WordPerfect for Windows 6.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/530,792D
; FILING DATE: 09/19/95
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/309,232
; FILING DATE: 09/20/94
; ATTORNEY/AGENT INFORMATION:
; NAME: Brewer, Alice A.
; REGISTRATION NUMBER: 32888
; REFERENCE/DOCKET NUMBER: MMH 323PI
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203) 812-2705
; TELEFAX: (203) 812-5492
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1025 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein;
; ORIGINAL SOURCE:
; ORGANISM: Rattus norvegicus
; STRAIN: Sprague-Dawley
; DEVELOPMENTAL STAGE: adult
; TISSUE TYPE: skeletal muscle
; IMMEDIATE SOURCE:
; LIBRARY: Clontech rat skeletal muscle cDNA library in lambda
; CLONE: 12.1 (from lambda gt11 library), PCR product clones 5,
; CLONE: 334, and KC44.
; FEATURE:
; NAME/KEY: complete amino acid sequence for GTVap, long version
; IDENTIFICATION METHOD: translation from cDNA
US-08-530-792D-23

Query Match 40.4%; Score 44; DB 2; Length 1025;
Best Local Similarity 46.7%; Pred. No. 3.2e+02;
Matches 7; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

Qy 2 WICNLFKNQWFCDAW 16
Db 470 WFGNLTVMQWNDLW 484

RESULT 8
US-08-530-792D-22
; Sequence 22, Application US/08530792D
; Patent No. 5972680
; GENERAL INFORMATION:
; APPLICANT: Knowles, W. J.; Guralski, D.; Haigh, W.; Letsinger, J. T.;
; APPLICANT: Clairmont, K.; and Hart, J.
; TITLE OF INVENTION: Glucose transporter Vesicle Aminopeptidase
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Bayer Corporation
; STREET: 400 Morgan Lane
; CITY: West Haven
; STATE: Connecticut
; COUNTRY: U.S.A.
; ZIP: 06516
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" diskette, 1.44 Mb Storage
; COMPUTER: Dell Windows 95 PC
; OPERATING SYSTEM: Windows 95
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; SOFTWARE: WordPerfect for Windows 6.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/530,792D
; FILING DATE: 09/19/95
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/309,232
; FILING DATE: 09/20/94
; ATTORNEY/AGENT INFORMATION:
; NAME: Brewer, Alice A.
; REGISTRATION NUMBER: 32888
; REFERENCE/DOCKET NUMBER: MMH 323PI
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203) 812-2705
; TELEFAX: (203) 812-5492
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1026 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Rattus norvegicus
; STRAIN: Sprague-Dawley
; DEVELOPMENTAL STAGE: adult
; TISSUE TYPE: skeletal muscle
; IMMEDIATE SOURCE:
; LIBRARY: Clontech rat skeletal muscle cDNA library in lambda gt11
; CLONE: 5.3 (from lambda gt11 library), PCR product clones 5, 334,
; CLONE: and KC44.
; FEATURE:
; NAME/KEY: complete amino acid sequence for GTVap, short version
; IDENTIFICATION METHOD: translation from cDNA
US-08-530-792D-22

Query Match 40.4%; Score 44; DB 2; Length 1026;
Best Local Similarity 46.7%; Pred. No. 3.2e+02;
Matches 7; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

Qy 2 WICNLFKNQWFCDAW 16
Db 470 WFGNLTVMQWNDLW 484

RESULT 9
US-09-337-227C-27
; Sequence 27, Application US/09337227C
; Patent No. 6420518
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2.rev
; CURRENT APPLICATION NUMBER: US/09/337,227C
; CURRENT FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/052,888
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6420518
```

US-09-337-227C-27

Query Match 39.4%; Score 43; DB 4; Length 21;
Best Local Similarity 33.3%; Pred. No. 8.4;
Matches 5; Conservative 3; Mismatches 7; Indels 0; Gaps 0;

QY 2 WICNLFKNQWFCDAW 16
|:| | | | | | | | | | | | | | | | | | | | |
Db 3 WVCRAQPLQWLCEKY 17

RESULT 10

US-09-723-251A-27
; Sequence 27, Application US/09723251A
; Patent No. 6608028
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2C1.2rev
; CURRENT APPLICATION NUMBER: US/09/723,251A
; CURRENT FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: US 09/337,227
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6608028
US-09-723-251A-27

Query Match 39.4%; Score 43; DB 4; Length 21;
Best Local Similarity 33.3%; Pred. No. 8.4;
Matches 5; Conservative 3; Mismatches 7; Indels 0; Gaps 0;

QY 2 WICNLFKNQWFCDAW 16
|:| | | | | | | | | | | | | | | | | | | | |
Db 3 WVCRAQPLQWLCEKY 17

RESULT 11

US-08-828-488-8
; Sequence 8, Application US/08828488
; Patent No. 5925521
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL HUMAN SERINE
; TITLE OF INVENTION: CARBOXYPEPTIDASE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS

SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/828,488
FILING DATE: Filed Herewith
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:

ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0241 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 480 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: GenBank
CLONE: 190283
US-08-828-488-8

Query Match 39.4%; Score 43; DB 2; Length 480;
Best Local Similarity 40.0%; Pred. No. 2e+02;
Matches 6; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFCDA 15
|:| | | | | | | | | | | | | | | | | | | | |
Db 400 DMACNFMGDEWFDVS 414

RESULT 12

US-09-299-689A-8
; Sequence 8, Application US/09299689A
; Patent No. 6379913
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL HUMAN SERINE
; TITLE OF INVENTION: CARBOXYPEPTIDASE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/299,689A
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/828,488
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0241 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 8:

; SEQUENCE CHARACTERISTICS:
; LENGTH: 480 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 190283
; US-09-299-689A-8

Query Match 39.4%; Score 43; DB 4; Length 480;
Best Local Similarity 40.0%; Pred. No. 2e+02;
Matches 6; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDA 15
| | | | | : | | | | :
Db 400 DMACNFMGDEWVFVDS 414

RESULT 13

US-09-702-705-336
; Sequence 336, Application US/09702705
; Patent No. 6504010

; GENERAL INFORMATION:

; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C14

; CURRENT APPLICATION NUMBER: US/09/702,705

; CURRENT FILING DATE: 2000-10-30

; NUMBER OF SEQ ID NOS: 1833

; SOFTWARE: FastSEQ for Windows Version 3.0

; SEQ ID NO 336

; LENGTH: 480

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-702-705-336

Query Match 39.4%; Score 43; DB 4; Length 480;
Best Local Similarity 40.0%; Pred. No. 2e+02;
Matches 6; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDA 15
| | | | | : | | | | :
Db 400 DMACNFMGDEWVFVDS 414

RESULT 14

US-09-736-457-336
; Sequence 336, Application US/09736457
; Patent No. 6509448

; GENERAL INFORMATION:

; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun

; APPLICANT: Wang, Aijun

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

; FILE REFERENCE: 210121.478C15

; CURRENT APPLICATION NUMBER: US/09/736,457
; CURRENT FILING DATE: 2000-12-13

; NUMBER OF SEQ ID NOS: 1864

; SOFTWARE: FastSEQ for Windows Version 3.0

; SEQ ID NO 336

; LENGTH: 480

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-736-457-336

Query Match 39.4%; Score 43; DB 4; Length 480;
Best Local Similarity 40.0%; Pred. No. 2e+02;
Matches 6; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDA 15
| | | | | : | | | | :
Db 400 DMACNFMGDEWVFVDS 414

RESULT 15

US-09-614-124B-336
; Sequence 336, Application US/09614124B
; Patent No. 6630574

; GENERAL INFORMATION:

; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.478C9

; CURRENT APPLICATION NUMBER: US/09/614,124B

; CURRENT FILING DATE: 2001-07-11

; NUMBER OF SEQ ID NOS: 1668

; SOFTWARE: FastSEQ for Windows Version 3.0

; SEQ ID NO 336

; LENGTH: 480

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-614-124B-336

Query Match 39.4%; Score 43; DB 4; Length 480;
Best Local Similarity 40.0%; Pred. No. 2e+02;
Matches 6; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDA 15
| | | | | : | | | | :
Db 400 DMACNFMGDEWVFVDS 414

Search completed: September 8, 2004, 14:31:48
Job time : 14.3 secs

GenCore version 5.1.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds
(without alignments)
114.961 Million cell updates/sec

Title: US-09-825-517A-133
Perfect score: 103
Sequence: 1 DWCFEFDKGQWNCNII 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues
Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications_AA:
1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|--------------------|
| 1 | 103 | 100.0 | 16 | 11 | US-09-825-517A-133 |
| 2 | 95 | 92.2 | 16 | 11 | US-09-825-517A-88 |
| 3 | 92 | 89.3 | 16 | 11 | US-09-825-517A-118 |
| 4 | 88 | 85.4 | 16 | 11 | US-09-825-517A-67 |
| 5 | 84 | 81.6 | 16 | 11 | US-09-825-517A-60 |
| 6 | 84 | 81.6 | 16 | 11 | US-09-825-517A-82 |
| 7 | 83 | 80.6 | 16 | 11 | US-09-825-517A-135 |
| 8 | 81 | 78.6 | 16 | 11 | US-09-825-517A-76 |
| 9 | 80 | 77.7 | 16 | 11 | US-09-825-517A-137 |
| 10 | 79 | 76.7 | 16 | 11 | US-09-825-517A-80 |
| 11 | 79 | 76.7 | 16 | 11 | US-09-825-517A-95 |
| 12 | 78 | 75.7 | 16 | 11 | US-09-825-517A-104 |
| 13 | 78 | 75.7 | 16 | 11 | US-09-825-517A-147 |
| 14 | 78 | 75.7 | 16 | 11 | US-09-825-517A-150 |
| 15 | 76 | 73.8 | 16 | 11 | US-09-825-517A-75 |

| | | | | | |
|----|------|----|----|--------------------|-------------------|
| 16 | 73.8 | 16 | 11 | US-09-825-517A-116 | Sequence 116, App |
| 17 | 73.8 | 16 | 11 | US-09-825-517A-139 | Sequence 139, App |
| 18 | 72.8 | 16 | 11 | US-09-825-517A-49 | Sequence 49, Appl |
| 19 | 72.8 | 16 | 11 | US-09-825-517A-59 | Sequence 59, Appl |
| 20 | 72.8 | 16 | 11 | US-09-825-517A-86 | Sequence 86, Appl |
| 21 | 72.8 | 16 | 11 | US-09-825-517A-151 | Sequence 151, App |
| 22 | 71.8 | 16 | 11 | US-09-825-517A-65 | Sequence 65, Appl |
| 23 | 71.8 | 16 | 11 | US-09-825-517A-105 | Sequence 105, App |
| 24 | 71.8 | 16 | 11 | US-09-825-517A-107 | Sequence 107, App |
| 25 | 70.9 | 16 | 11 | US-09-825-517A-70 | Sequence 70, Appl |
| 26 | 70.9 | 16 | 11 | US-09-825-517A-101 | Sequence 101, App |
| 27 | 70.9 | 16 | 11 | US-09-825-517A-113 | Sequence 113, App |
| 28 | 70.9 | 16 | 11 | US-09-825-517A-114 | Sequence 114, App |
| 29 | 69.9 | 16 | 11 | US-09-825-517A-5 | Sequence 5, Appl |
| 30 | 69.9 | 16 | 11 | US-09-825-517A-117 | Sequence 117, App |
| 31 | 69.9 | 27 | 11 | US-09-825-517A-25 | Sequence 25, Appl |
| 32 | 68.9 | 16 | 11 | US-09-825-517A-100 | Sequence 100, App |
| 33 | 68.9 | 16 | 11 | US-09-825-517A-112 | Sequence 112, App |
| 34 | 68.9 | 16 | 11 | US-09-825-517A-122 | Sequence 122, App |
| 35 | 68.9 | 16 | 11 | US-09-825-517A-126 | Sequence 126, App |
| 36 | 68.9 | 16 | 11 | US-09-825-517A-127 | Sequence 127, App |
| 37 | 68.9 | 16 | 11 | US-09-825-517A-130 | Sequence 130, App |
| 38 | 68.9 | 16 | 11 | US-09-825-517A-140 | Sequence 140, App |
| 39 | 68.0 | 16 | 11 | US-09-825-517A-18 | Sequence 18, Appl |
| 40 | 68.0 | 16 | 11 | US-09-825-517A-23 | Sequence 23, Appl |
| 41 | 68.0 | 16 | 11 | US-09-825-517A-33 | Sequence 33, Appl |
| 42 | 68.0 | 16 | 11 | US-09-825-517A-78 | Sequence 78, Appl |
| 43 | 68.0 | 16 | 11 | US-09-825-517A-106 | Sequence 106, App |
| 44 | 68.0 | 16 | 11 | US-09-825-517A-115 | Sequence 115, App |
| 45 | 68.0 | 16 | 11 | US-09-825-517A-125 | Sequence 125, App |

ALIGNMENTS

RESULT 1
US-09-825-517A-133
; Sequence 133, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DXX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 133
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-133

Query Match 100.0%; Score 103; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 4,le-08;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWCFEFDKGQWNCNII 16
| | | | | | | | | | | | | | | |
Db 1 DWCFEFDKGQWNCNII 16

RESULT 2
US-09-825-517A-88
; Sequence 88, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

```

; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 88
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-88

```

```

Query Match      92.2%; Score 95; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 5.8e-07;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

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QY 1 DWVCEFDKGQWNCNII 16
   |||||:||||:||||
DB 1 DWVCEYDKGQWHCNII 16

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RESULT 3
US-09-825-517A-118
; Sequence 118, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 118
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-118

```

```

Query Match      89.3%; Score 92; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.6e-06;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

```

```

QY 1 DWVCEFDKGQWNCNII 16
   |||||:||||:||||
DB 1 DWVCEFEKGQWTCNVL 16

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```

RESULT 4
US-09-825-517A-67
; Sequence 67, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24

```

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; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 67
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-67

```

```

Query Match      85.4%; Score 88; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 5.9e-06;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 1 DWVCEFDKGQWNCNII 16
   |||||:||||:||||
DB 1 DWVCEFYKQWNCNII 16

```

```

RESULT 5
US-09-825-517A-60
; Sequence 60, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 60
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-60

```

```

Query Match      81.6%; Score 84; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.2e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```

```

QY 1 DWVCEFDKGQWNCNII 16
   |||||:||||:||||
DB 1 DWVCEIDKGQWTCNPL 16

```

```

RESULT 6
US-09-825-517A-82
; Sequence 82, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 82
; LENGTH: 16
; TYPE: PRT

```

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-82
  Query Match      81.6%; Score 84; DB 11; Length 16;
  Best Local Similarity 75.0%; Pred. No. 2.2e-05;
  Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWCEFDKGQWNCNIL 16
Db 1 DWCEYEKQWQSCNVL 16

RESULT 7
US-09-825-517A-135
; Sequence 135, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 135
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-135
  Query Match      80.6%; Score 83; DB 11; Length 16;
  Best Local Similarity 81.2%; Pred. No. 3.1e-05;
  Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWCEFDKGQWNCNIL 16
Db 1 DWCEFDKLOWVNCNL 16

RESULT 8
US-09-825-517A-76
; Sequence 76, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 76
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-76
  Query Match      78.6%; Score 81; DB 11; Length 16;
  Best Local Similarity 75.0%; Pred. No. 6e-05;
```

```
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWCEFDKGQWNCNIL 16
Db 1 DWCEFFKQWQSCNVL 16

RESULT 9
US-09-825-517A-137
; Sequence 137, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 137
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-137
  Query Match      77.7%; Score 80; DB 11; Length 16;
  Best Local Similarity 81.2%; Pred. No. 8.4e-05;
  Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWCEFDKGQWNCNIL 16
Db 1 DWCEFFKQWYCNIL 16

RESULT 10
US-09-825-517A-80
; Sequence 80, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 80
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-80
  Query Match      76.7%; Score 79; DB 11; Length 16;
  Best Local Similarity 75.0%; Pred. No. 0.00012;
  Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWCEFDKGQWNCNIL 16
Db 1 DWCEFFKQWQWNCNVL 16
```

```

RESULT 11
US-09-825-517A-95
; Sequence 95, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 95
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-95

```

```

Query Match 76.7%; Score 79; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 0.00012;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

```

```

QY 1 DWVCEFDKGQWNCN1L 16
| | | | | | | | | | | | | |
DB 1 DWVCEYAKQWNCNPL 16

```

```

RESULT 12
US-09-825-517A-104
; Sequence 104, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 104
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-104

```

```

Query Match 75.7%; Score 78; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00016;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```

```

QY 1 DWVCEFDKGQWNCN1L 16
| | | | | | | | | | | | | |
DB 1 DWVCEFFKPQWMCN1L 16

```

```

RESULT 13
US-09-825-517A-147
; Sequence 147, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C

```

```

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 147
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-147

```

```

Query Match 75.7%; Score 78; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 0.00016;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

```

```

QY 1 DWVCEFDKGQWNCN1L 16
| | | | | | | | | | | | | |
DB 1 DWVCEFIKQWFCNVL 16

```

```

RESULT 14
US-09-825-517A-150
; Sequence 150, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 150
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-150

```

```

Query Match 75.7%; Score 78; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00016;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```

```

QY 1 DWVCEFDKGQWNCN1L 16
| | | | | | | | | | | | | |
DB 1 DWVCEFFKQWFCN1L 16

```

```

RESULT 15
US-09-825-517A-75
; Sequence 75, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03

```

```
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 75
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-75
```

```
Query Match      73.8%; Score 76; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 0.00032;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
```

```
Qy      1 DWVCEFDKGQWNCNIL 16
      ||||| |||||
Db      1 DWVCEFFKQWFCNVL 16
```

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Search completed: September 8, 2004, 15:58:35
Job time : 43.85 secs
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 12:58:43 ; Search time 13.3 Seconds
(without alignments)
62.106 Million cell updates/sec

Title: US-09-825-517A-133
Perfect score: 103
Sequence: 1 DWVCEFDKGQWNCN16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA.*
1: /cgn2_6/ptodata/2/iaa/5A COMB.pap.*
2: /cgn2_6/ptodata/2/iaa/5B COMB.pap.*
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4: /cgn2_6/ptodata/2/iaa/6B COMB.pap.*
5: /cgn2_6/ptodata/2/iaa/PCTUS COMB.pap.*
6: /cgn2_6/ptodata/2/iaa/backfiles.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|----------------------|
| 1 | 46 | 44.7 | 176 | 4 | US-09-134-000C-6119 |
| 2 | 46 | 44.7 | 593 | 5 | PCT-US93-07923-11 |
| 3 | 46 | 44.7 | 755 | 5 | PCT-US93-07923-3 |
| 4 | 46 | 44.7 | 759 | 5 | PCT-US93-07923-2 |
| 5 | 46 | 44.7 | 766 | 1 | US-08-230-491A-3 |
| 6 | 46 | 44.7 | 766 | 1 | US-08-619-280A-3 |
| 7 | 46 | 44.7 | 766 | 2 | US-08-940-391-3 |
| 8 | 46 | 44.7 | 766 | 4 | US-09-794-236-1 |
| 9 | 46 | 44.7 | 766 | 4 | US-10-002-593-6 |
| 10 | 45 | 43.7 | 179 | 4 | US-09-543-681A-4679 |
| 11 | 45 | 43.7 | 360 | 4 | US-09-417-039-4 |
| 12 | 44.5 | 43.2 | 426 | 4 | US-09-489-039A-13594 |
| 13 | 43 | 41.7 | 20 | 1 | US-08-484-135-27 |
| 14 | 43 | 41.7 | 20 | 1 | US-08-484-635-208 |
| 15 | 43 | 41.7 | 20 | 2 | US-08-484-631-208 |
| 16 | 43 | 41.7 | 20 | 2 | US-08-827-570-208 |
| 17 | 43 | 41.7 | 349 | 3 | US-09-459-774-2 |
| 18 | 43 | 41.7 | 349 | 4 | US-09-417-039-7 |
| 19 | 43 | 41.7 | 349 | 4 | US-09-903-817-2 |
| 20 | 42 | 40.8 | 222 | 4 | US-09-328-352-6740 |
| 21 | 42 | 40.8 | 399 | 1 | US-08-414-926A-5 |
| 22 | 42 | 40.8 | 399 | 2 | US-08-946-322-5 |
| 23 | 42 | 40.8 | 399 | 3 | US-09-253-682-5 |
| 24 | 42 | 40.8 | 399 | 3 | US-09-527-657-5 |
| 25 | 42 | 40.8 | 399 | 4 | US-09-892-100-5 |
| 26 | 42 | 40.8 | 617 | 1 | US-08-191-866D-58 |
| 27 | 42 | 40.8 | 617 | 2 | US-08-185-949B-58 |

```

28 42 40.8 789 4 US-09-390-234-16 Sequence 16, Appl
29 42 40.8 789 4 US-09-603-311-16 Sequence 16, Appl
30 42 40.8 973 4 US-09-392-714-24 Sequence 24, Appl
31 42 40.8 976 3 US-09-104-324B-4 Sequence 4, Appl
32 42 40.8 1456 4 US-09-976-594-168 Sequence 168, App
33 41.5 40.3 234 4 US-09-252-991A-29027 Sequence 29027, A
34 41 39.8 79 4 US-09-198-452A-1187 Sequence 1187, Ap
35 41 39.8 593 1 US-07-668-648-4 Sequence 4, Appl
36 41 39.8 593 2 US-08-429-998-4 Sequence 4, Appl
37 41 39.8 593 2 US-08-431-333-4 Sequence 4, Appl
38 41 39.8 593 4 US-08-991-862-17 Sequence 17, Appl
39 41 39.8 593 4 US-09-813-156-17 Sequence 17, Appl
40 41 39.8 593 5 PCT-US91-02321-4 Sequence 4, Appl
41 41 39.8 615 3 US-08-989-299-11 Sequence 11, Appl
42 41 39.8 615 4 US-09-407-427-11 Sequence 11, Appl
43 41 39.8 3224 2 US-08-705-660-34 Sequence 34, Appl
44 41 39.8 3224 3 US-08-989-045-34 Sequence 34, Appl
45 40 38.8 113 1 US-07-668-648-10 Sequence 10, Appl

```

ALIGNMENTS

```

RESULT 1
US-09-134-000C-6119
; Sequence 6119, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; TITLE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134.000C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6119
; LENGTH: 176
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
US-09-134-000C-6119

```

```

Query Match 44.7%; Score 46; DB 4; Length 176;
Best Local Similarity 54.5%; Pred. No. 12;
Matches 6; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

```

```

Qy 4 CEFDKGQWNCN 14
   |||:|:|:|
Db 166 CEFKGTWTC 176

```

```

RESULT 2
PCT-US93-07923-11
; Sequence 11, Application PC/TUS9307923
; GENERAL INFORMATION:
; APPLICANT: Morimoto, Chikao
; APPLICANT: Schlossman, Stuart F.
; APPLICANT: Tanaka, Toshiaki
; TITLE OF INVENTION: HUMAN CD26 AND METHODS FOR USE
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM PS/2 Model 50Z or 55SX
; OPERATING SYSTEM: IBM P.C. DOS (Version 3.30)

```

;; SOFTWARE: WordPerfect (Version 5.0)
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: PCT/US93/07923
;; FILING DATE: 19930819
;; CLASSIFICATION:
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 07/934,162
;; FILING DATE: 21-AUG-1992
;; APPLICATION NUMBER: 07/832,211
;; FILING DATE: 06-FEB-1992
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Fraser, Janis K.
;; REGISTRATION NUMBER: 34,819
;; REFERENCE/DOCKET NUMBER: 00530/055002
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (617) 542-5070
;; TELEFAX: (617) 542-8906
;; TELEX: 200154
;; INFORMATION FOR SEQ ID NO: 11:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 593
;; TYPE: amino acid
;; STRANDEDNESS:
;; TOPOLOGY: linear
PCT-US93-07923-11

Query Match 44.7%; Score 46; DB 5; Length 593;
Best Local Similarity 46.2%; Pred. No. 43;
Matches 6; Conservative 5; Mismatches 0; Indels 2; Gaps 1;

QY 3 VCEFDK--GQWNC 13
:|:|:|:|:
Db 327 ICDYDESSGRWNC 339

RESULT 3
PCT-US93-07923-3
;; Sequence 3, Application PC/TUS9307923
;; GENERAL INFORMATION:
;; APPLICANT: Morimoto, Chikao
;; APPLICANT: Schlossman, Stuart F.
;; APPLICANT: Tanaka, Toshiaki
;; TITLE OF INVENTION: HUMAN CD26 AND METHODS FOR USE
;; NUMBER OF SEQUENCES: 16
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Fish & Richardson
;; STREET: 225 Franklin Street
;; CITY: Boston
;; STATE: Massachusetts
;; COUNTRY: U.S.A.
;; ZIP: 02110-2804
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
;; COMPUTER: IBM PS/2 Model 502 or 55SX
;; OPERATING SYSTEM: IBM P.C. DOS (Version 3.30)
;; SOFTWARE: WordPerfect (Version 5.0)
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: PCT/US93/07923
;; FILING DATE: 19930819
;; CLASSIFICATION:
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 07/934,162
;; FILING DATE: 21-AUG-1992
;; APPLICATION NUMBER: 07/832,211
;; FILING DATE: 06-FEB-1992
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Fraser, Janis K.
;; REGISTRATION NUMBER: 34,819
;; REFERENCE/DOCKET NUMBER: 00530/055002
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (617) 542-5070
;; TELEFAX: (617) 542-8906
;; TELEX: 200154

;; INFORMATION FOR SEQ ID NO: 3:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 755
;; TYPE: amino acid
;; STRANDEDNESS:
;; TOPOLOGY: linear
PCT-US93-07923-3

Query Match 44.7%; Score 46; DB 5; Length 755;
Best Local Similarity 46.2%; Pred. No. 55;
Matches 6; Conservative 5; Mismatches 0; Indels 2; Gaps 1;
QY 3 VCEFDK--GQWNC 13
:|:|:|:|:
Db 316 ICDYDESSGRWNC 328

RESULT 4
PCT-US93-07923-2
;; Sequence 2, Application PC/TUS9307923
;; GENERAL INFORMATION:
;; APPLICANT: Morimoto, Chikao
;; APPLICANT: Schlossman, Stuart F.
;; APPLICANT: Tanaka, Toshiaki
;; TITLE OF INVENTION: HUMAN CD26 AND METHODS FOR USE
;; NUMBER OF SEQUENCES: 16
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Fish & Richardson
;; STREET: 225 Franklin Street
;; CITY: Boston
;; STATE: Massachusetts
;; COUNTRY: U.S.A.
;; ZIP: 02110-2804
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
;; COMPUTER: IBM PS/2 Model 502 or 55SX
;; OPERATING SYSTEM: IBM P.C. DOS (Version 3.30)
;; SOFTWARE: WordPerfect (Version 5.0)
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: PCT/US93/07923
;; FILING DATE: 19930819
;; CLASSIFICATION:
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 07/934,162
;; FILING DATE: 21-AUG-1992
;; APPLICATION NUMBER: 07/832,211
;; FILING DATE: 06-FEB-1992
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Fraser, Janis K.
;; REGISTRATION NUMBER: 34,819
;; REFERENCE/DOCKET NUMBER: 00530/055002
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (617) 542-5070
;; TELEFAX: (617) 542-8906
;; TELEX: 200154
;; INFORMATION FOR SEQ ID NO: 2:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 759
;; TYPE: amino acid
;; STRANDEDNESS:
;; TOPOLOGY: linear
PCT-US93-07923-2

Query Match 44.7%; Score 46; DB 5; Length 759;
Best Local Similarity 46.2%; Pred. No. 56;
Matches 6; Conservative 5; Mismatches 0; Indels 2; Gaps 1;
QY 3 VCEFDK--GQWNC 13
:|:|:|:|:
Db 320 ICDYDESSGRWNC 332

RESULT 5

US-08-230-491A-3
; Sequence 3, Application US/08230491A
; Patent No. 5587299
; GENERAL INFORMATION:
; APPLICANT: Rettig, Wolfgang J.; Scanlan, Matthew J.;
; APPLICANT: Garin-Chesa, Pilar; Old, Lloyd J.
; TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULE CODING FOR
; TITLE OF INVENTION: FIBROBLAST ACTIVATION PROTEIN AND USES
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FELFE & LYNCH
; STREET: 805 THIRD AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: DISKETTE 3.5 inch 1.2 MB STORAGE
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: WORDPERFECT - ASC II
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/230,491A
; FILING DATE: 20-APRIL-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Hanson, No. 5587299man D.
; REGISTRATION NUMBER: 30,946
; REFERENCE/DOCKET NUMBER: LUD 330
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 838-3884
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 766 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
US-08-230-491A-3

Query Match 44.7%; Score 46; DB 1; Length 766;
Best Local Similarity 46.2%; Pred. No. 56;
Matches 6; Conservative 5; Mismatches 0; Indels 2; Gaps 1;

Qy 3 VCFEDK--GQWNC 13
Db 327 ICYDESSGRWNC 339

RESULT 6
US-08-619-280A-3
; Sequence 3, Application US/08619280A
; Patent No. 5767242
; GENERAL INFORMATION:
; APPLICANT: Zimmermann, Rainer; Park, John E.;
; APPLICANT: Rettig, Wolfgang; Old, Lloyd J.
; TITLE OF INVENTION: ISOLATED DIMERIC FIBROBLAST ACTIVATION PROTEIN
; TITLE OF INVENTION: ALPHA, AND USES THEREOF
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felte & Lynch
; STREET: 805 Third Avenue
; City: New York City
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 2.0 MB storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/619,280A

; FILING DATE: 18-MARCH-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/230,491
; FILING DATE: 20-APRIL-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Hanson, No. 5767242man D.
; REGISTRATION NUMBER: 30,946
; REFERENCE/DOCKET NUMBER: LUD 5330.1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 766 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
US-08-619-280A-3
Query Match 44.7%; Score 46; DB 1; Length 766;
Best Local Similarity 46.2%; Pred. No. 56;
Matches 6; Conservative 5; Mismatches 0; Indels 2; Gaps 1;
Qy 3 VCFEDK--GQWNC 13
Db 327 ICYDESSGRWNC 339
RESULT 7
US-08-940-391-3
; Sequence 3, Application US/08940391
; Patent No. 5965373
; GENERAL INFORMATION:
; APPLICANT: Zimmermann, Rainer; Park, John E.;
; APPLICANT: Rettig, Wolfgang; Old, Lloyd J.
; TITLE OF INVENTION: ISOLATED DIMERIC FIBROBLAST ACTIVATION
; TITLE OF INVENTION: PROTEIN ALPHA, AND USES THEREOF
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felte & Lynch
; STREET: 805 Third Avenue
; CITY: New York City
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 2.0 MB storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/940,391
; FILING DATE: 01-OCT-1997
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/619,280
; FILING DATE: 18-MARCH-1996
; APPLICATION NUMBER: 08/230,491
; FILING DATE: 20-APRIL-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Hanson, No. 5965373man D.
; REGISTRATION NUMBER: 30,946
; REFERENCE/DOCKET NUMBER: LUD 5330.1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 766 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
US-08-940-391-3


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; ORGANISM: Klebsiella pneumoniae
; US-09-489-039A-13594

Query Match 43.2%; Score 44.5; DB 4; Length 426;
Best Local Similarity 61.5%; Pred. No. 51;
Matches 8; Conservative 2; Mismatches 2; Indels 1; Gaps 1;

QY 1 DWV-CEFDKGQWN 12
Db 271 EWVDIDFDKGIMN 283

RESULT 13
US-08-484-135-27
; Sequence 27, Application US/08484135
; Patent No. 5767078
; GENERAL INFORMATION:
; APPLICANT: Johnson, Dana L
; APPLICANT: Zivin, Robert A
; TITLE OF INVENTION: AGONIST PEPTIDE DIMERS
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Frank S. DiGioglio
; STREET: 400 Garden City Plaza
; CITY: Garden City
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 11530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,135
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: DiGioglio, Frank S
; REGISTRATION NUMBER: 31,346
; REFERENCE/DOCKET NUMBER: 9594
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (516) 742-4366
; TELEFAX: (516) 742-4366
; INFORMATION FOR SEQ ID NO: 27:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-484-135-27

Query Match 41.7%; Score 43; DB 1; Length 20;
Best Local Similarity 38.5%; Pred. No. 3.3;
Matches 5; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 1 DWVCEFDKGQWNC 13
Db 3 NYLCRFGPGTWDG 15

RESULT 14
US-08-484-635-208
; Sequence 208, Application US/08484635
; Patent No. 5773569
; GENERAL INFORMATION:
; APPLICANT: Wrighton, Nicholas C.
; APPLICANT: Dower, William J.
; APPLICANT: Chang, Ray S.
; APPLICANT: Kashyap, Arun K.
; APPLICANT: Jolliffe, Linda K.
; APPLICANT: Johnson, Dana
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; TITLE OF INVENTION: Erythropoietin Receptor
; NUMBER OF SEQUENCES: 259
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,635
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/155,940
; FILING DATE: 19-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER: 16528A-43-1-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 208:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-484-635-208

Query Match 41.7%; Score 43; DB 1; Length 20;
Best Local Similarity 38.5%; Pred. No. 3.3;
Matches 5; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 1 DWVCEFDKGQWNC 13
Db 3 NYLCRFGPGTWDG 15

RESULT 15
US-08-484-631-208
; Sequence 208, Application US/08484631
; Patent No. 5830851
; GENERAL INFORMATION:
; APPLICANT: Wrighton, Nicholas C.
; APPLICANT: Dower, William J.
; APPLICANT: Chang, Ray S.
; APPLICANT: Kashyap, Arun K.
; APPLICANT: Jolliffe, Linda K.
; APPLICANT: Johnson, Dana
; APPLICANT: Mulcahy, Linda
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; TITLE OF INVENTION: Erythropoietin Receptor
; NUMBER OF SEQUENCES: 259
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,635
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/155,940
; FILING DATE: 19-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER: 16528A-43-1-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 208:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-484-635-208

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; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA: US/08/484,631
; APPLICATION NUMBER: US/08/484,631
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/155,940
; FILING DATE: 19-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER: 16528A-43-1-2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 208:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-484-631-208

Query Match 41.7%; Score 43; DB 2; Length 20;
Best Local Similarity 38.5%; Pred. No. 3.3;
Matches 5; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 1 DWVCEFDKGQWNC 13
   : : : : :
Db 3 NYLCRFPGGTWDC 15
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Search completed: September 8, 2004, 14:31:47
Job time : 14.3 secs

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OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds
(without alignments)
114.961 Million cell updates/sec

Title: US-09-825-517A-132
Perfect score: 104
Sequence: 1 DWMCNLFKNQWFCDDVQ 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|--------------------|
| 1 | 104 | 100.0 | 16 | 11 | US-09-825-517A-132 |
| 2 | 100 | 96.2 | 16 | 11 | US-09-825-517A-62 |
| 3 | 99 | 95.2 | 16 | 11 | US-09-825-517A-46 |
| 4 | 96 | 92.3 | 16 | 11 | US-09-825-517A-37 |
| 5 | 95 | 91.3 | 16 | 11 | US-09-825-517A-43 |
| 6 | 95 | 91.3 | 16 | 11 | US-09-825-517A-42 |
| 7 | 95 | 91.3 | 16 | 11 | US-09-825-517A-45 |
| 8 | 95 | 91.3 | 16 | 11 | US-09-825-517A-52 |
| 9 | 95 | 91.3 | 16 | 11 | US-09-825-517A-58 |
| 10 | 95 | 91.3 | 16 | 11 | US-09-825-517A-74 |
| 11 | 95 | 91.3 | 16 | 11 | US-09-825-517A-120 |
| 12 | 95 | 91.3 | 16 | 11 | US-09-825-517A-121 |
| 13 | 95 | 91.3 | 16 | 11 | US-09-825-517A-124 |
| 14 | 95 | 91.3 | 16 | 11 | US-09-825-517A-129 |
| 15 | 93 | 89.4 | 16 | 11 | US-09-825-517A-69 |

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|----|----|------|----|----|--------------------|--------------------|
| 16 | 93 | 89.4 | 16 | 11 | US-09-825-517A-84 | Sequence 84, Appl |
| 17 | 92 | 88.5 | 16 | 11 | US-09-825-517A-38 | Sequence 38, Appl |
| 18 | 92 | 88.5 | 16 | 11 | US-09-825-517A-48 | Sequence 48, Appl |
| 19 | 92 | 88.5 | 16 | 11 | US-09-825-517A-145 | Sequence 145, Appl |
| 20 | 91 | 87.5 | 16 | 11 | US-09-825-517A-39 | Sequence 39, Appl |
| 21 | 91 | 87.5 | 16 | 11 | US-09-825-517A-47 | Sequence 47, Appl |
| 22 | 91 | 87.5 | 16 | 11 | US-09-825-517A-53 | Sequence 53, Appl |
| 23 | 91 | 87.5 | 16 | 11 | US-09-825-517A-57 | Sequence 57, Appl |
| 24 | 91 | 87.5 | 16 | 11 | US-09-825-517A-73 | Sequence 73, Appl |
| 25 | 91 | 87.5 | 16 | 11 | US-09-825-517A-77 | Sequence 77, Appl |
| 26 | 91 | 87.5 | 16 | 11 | US-09-825-517A-81 | Sequence 81, Appl |
| 27 | 91 | 87.5 | 16 | 11 | US-09-825-517A-83 | Sequence 83, Appl |
| 28 | 91 | 87.5 | 16 | 11 | US-09-825-517A-131 | Sequence 131, Appl |
| 29 | 91 | 87.5 | 16 | 11 | US-09-825-517A-134 | Sequence 134, Appl |
| 30 | 91 | 87.5 | 16 | 11 | US-09-825-517A-136 | Sequence 136, Appl |
| 31 | 90 | 86.5 | 16 | 11 | US-09-825-517A-41 | Sequence 41, Appl |
| 32 | 90 | 86.5 | 16 | 11 | US-09-825-517A-50 | Sequence 50, Appl |
| 33 | 90 | 86.5 | 16 | 11 | US-09-825-517A-98 | Sequence 98, Appl |
| 34 | 90 | 86.5 | 16 | 11 | US-09-825-517A-119 | Sequence 119, Appl |
| 35 | 90 | 86.5 | 16 | 11 | US-09-825-517A-128 | Sequence 128, Appl |
| 36 | 87 | 83.7 | 16 | 11 | US-09-825-517A-64 | Sequence 64, Appl |
| 37 | 86 | 82.7 | 16 | 11 | US-09-825-517A-40 | Sequence 40, Appl |
| 38 | 86 | 82.7 | 16 | 11 | US-09-825-517A-61 | Sequence 61, Appl |
| 39 | 86 | 82.7 | 16 | 11 | US-09-825-517A-66 | Sequence 66, Appl |
| 40 | 86 | 82.7 | 16 | 11 | US-09-825-517A-71 | Sequence 71, Appl |
| 41 | 86 | 82.7 | 16 | 11 | US-09-825-517A-99 | Sequence 99, Appl |
| 42 | 86 | 82.7 | 16 | 11 | US-09-825-517A-108 | Sequence 108, Appl |
| 43 | 85 | 81.7 | 16 | 11 | US-09-825-517A-79 | Sequence 79, Appl |
| 44 | 85 | 81.7 | 16 | 11 | US-09-825-517A-89 | Sequence 89, Appl |
| 45 | 85 | 81.7 | 16 | 11 | US-09-825-517A-92 | Sequence 92, Appl |

ALIGNMENTS

RESULT 1
US-09-825-517A-132
; Sequence 132, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 132
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-132

Query Match 100.0%; Score 104; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 4.7e-08;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 DWMCNLFKNQWFCDDVQ 16
| | | | | | | | | | | | | | | |
Db 1 DWMCNLFKNQWFCDDVQ 16

RESULT 2
US-09-825-517A-62
; Sequence 62, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; TITLE OF INVENTION: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 62
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 ; US-09-825-517A-62

Query Match 96.2%; Score 100; DB 11; Length 16;
 Best Local Similarity 93.8%; Pred. No. 1.7e-07;
 Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWMCNLFKNQWFCVDQ 16
 ||:|||||
 Db 1 DWVCNLFKNQWFCVDQ 16

RESULT 3

US-09-825-517A-46
 ; Sequence 46, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; TITLE OF INVENTION: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 46
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 ; US-09-825-517A-46

Query Match 95.2%; Score 99; DB 11; Length 16;
 Best Local Similarity 100.0%; Pred. No. 2.4e-07;
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWMCNLFKNQWFCVDV 15
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 Db 1 DWMCNLFKNQWFCVDV 15

RESULT 4

US-09-825-517A-37
 ; Sequence 37, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; TITLE OF INVENTION: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24

; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 37
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 ; US-09-825-517A-37

Query Match 92.3%; Score 96; DB 11; Length 16;
 Best Local Similarity 93.3%; Pred. No. 6.4e-07;
 Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWMCNLFKNQWFCDV 15
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 Db 1 DWMCNLFKNQWFCDL 15

RESULT 5

US-09-825-517A-42
 ; Sequence 42, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; TITLE OF INVENTION: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 42
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 ; US-09-825-517A-42

Query Match 91.3%; Score 95; DB 11; Length 16;
 Best Local Similarity 93.3%; Pred. No. 8.9e-07;
 Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWMCNLFKNQWFCDV 15
 ||:|||||
 Db 1 DWMCNLFKNQWFCDV 15

RESULT 6

US-09-825-517A-43
 ; Sequence 43, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; TITLE OF INVENTION: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 43
 ; LENGTH: 16
 ; TYPE: PRT


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; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-43

Query Match          91.3%; Score 95; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 8.9e-07;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWMCNLFKNQWFCDD 14
Db 1 DWMCNLFKNQWFCDD 14

RESULT 7
US-09-825-517A-45
; Sequence 45, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 45
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-45

Query Match          91.3%; Score 95; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 8.9e-07;
Matches 13; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWMCNLFKNQWFCDDVQ 16
Db 1 DWICNLFKNQWFCDDIR 16

RESULT 8
US-09-825-517A-52
; Sequence 52, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-52

Query Match          91.3%; Score 95; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 8.9e-07;

US-09-825-517A-58
; Sequence 58, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 58
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-58

Query Match          91.3%; Score 95; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 8.9e-07;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWMCNLFKNQWFCDDV 15
Db 1 DWVCNLFKNQWFCDDV 15

RESULT 9
US-09-825-517A-74
; Sequence 74, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 74
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-74

Query Match          91.3%; Score 95; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 8.9e-07;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWMCNLFKNQWFCDDV 15
Db 1 DWVCNLFKNQWFCDDV 15

RESULT 10
US-09-825-517A-74
; Sequence 74, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 74
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-74

Query Match          91.3%; Score 95; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 8.9e-07;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWMCNLFKNQWFCDDV 15
Db 1 DWVCNLFKNQWFCDDV 15

```

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RESULT 11
US-09-825-517A-120
; Sequence 120, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 120
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-120

Query Match          91.3%; Score 95; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 8.9e-07;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWMCNLFKNQWFCDV 15
Db 1 DWVCNLFKNQWFCDV 15

RESULT 12
US-09-825-517A-121
; Sequence 121, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 121
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-121

Query Match          91.3%; Score 95; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 8.9e-07;
Matches 13; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWMCNLFKNQWFCDVQ 16
Db 1 DWICNLFKNQWFCDIR 16

RESULT 13
US-09-825-517A-124
; Sequence 124, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C

```

```

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 124
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-124

Query Match          91.3%; Score 95; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 8.9e-07;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWMCNLFKNQWFCDV 15
Db 1 DWVCNLFKNQWFCDV 15

RESULT 14
US-09-825-517A-129
; Sequence 129, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 129
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-129

Query Match          91.3%; Score 95; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 8.9e-07;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWMCNLFKNQWFCDV 15
Db 1 DWVCNLFKNQWFCDV 15

RESULT 15
US-09-825-517A-69
; Sequence 69, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03

```

Wed Sep 8 16:40:48 2004

```
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 69
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-69

Query Match      89.4%; Score 93; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. NO. 1.7e-06;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 DWMCNLFKNQWFCDV 15
      |||||
Db      1 DWYCNLFKNQWFCDV 15

Search completed: September 8, 2004, 15:58:35
Job time : 44.85 secs
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; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 215
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-131-028A-13

Query Match      47.1%; Score 49; DB 3; Length 215;
Best Local Similarity 50.0%; Pred. No. 6.2;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

Qy 2 WMCNLFKNQFCDV 15
Db 12 WFCGLRGNEFFCEV 25

RESULT 3
US-09-137-223A-2
; Sequence 2, Application US/09137223A
; Patent No. 6420525
; GENERAL INFORMATION:
; APPLICANT: Yee, David P
; APPLICANT: Deisher, Theresa A
; TITLE OF INVENTION: TESTIS-SPECIFIC TRANSCRIPTION FACTOR
; FILE REFERENCE: 97-18
; CURRENT APPLICATION NUMBER: US/09/137,223A
; PRIOR FILING DATE: 1998-08-19
; APPLICATION NUMBER: 06/056,130
; PRIOR FILING DATE: 1997-08-19
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 478
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-137-223A-2

Query Match      44.2%; Score 46; DB 4; Length 478;
Best Local Similarity 41.7%; Pred. No. 39;
Matches 5; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DMCNLFKNQWF 12
Db 322 EWLSSVYKQQWF 333

RESULT 4
US-08-265-967C-3
; Sequence 3, Application US/08265967C
; Patent No. 6476200
; GENERAL INFORMATION:
; APPLICANT: SABATINI, DAVID M.
; APPLICANT: ERDJUMENT-BROMAGE, HEDIYE
; APPLICANT: LUI, MARY
; APPLICANT: TEMPEST, PAUL
; APPLICANT: SNYDER, SOLOMON H.
; TITLE OF INVENTION: MAMMALIAN PROTEINS THAT BIND TO FKBP12
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BANNER & ALLEGRETTI, LTD
; STREET: 1001 G STREET, N.W., 11TH FLOOR
; CITY: WASHINGTON
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20001-4597
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE:
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/265,967
; FILING DATE: 27-JUN-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: KAGAN, SARAH A.
; REGISTRATION NUMBER: 32,141
; REFERENCE/DOCKET NUMBER: 01107.47225
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-508-9100
; TELEFAX: 202-508-9299
; TELEX: 197430 BMB UT
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2474 amino acids
; CURRENT APPLICATION DATA:
```

```
; APPLICATION NUMBER: US/08/265,967C
; FILING DATE: 27-JUN-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: KAGAN, SARAH A.
; REGISTRATION NUMBER: 32,141
; REFERENCE/DOCKET NUMBER: 01107.46363
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-508-9100
; TELEFAX: 202-508-9299
; TELEX: 197430 BMB UT
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2474 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Saccharomyces cerevisiae
US-08-265-967C-3

Query Match      42.3%; Score 44; DB 4; Length 2474;
Best Local Similarity 50.0%; Pred. No. 4.2e+02;
Matches 6; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

Qy 5 NLFKNQFCDVQ 16
Db 1223 NLFKNQFCDVQ 1234

RESULT 5
US-08-305-790B-4
; Sequence 4, Application US/08305790B
; Patent No. 6492106
; GENERAL INFORMATION:
; APPLICANT: SABATINI, DAVID M.
; APPLICANT: ERDJUMENT-BROMAGE, HEDIYE
; APPLICANT: LUI, MARY
; APPLICANT: TEMPEST, PAUL
; APPLICANT: SNYDER, SOLOMON H.
; TITLE OF INVENTION: MAMMALIAN PROTEINS THAT BIND TO FKBP12
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BANNER & ALLEGRETTI, LTD
; STREET: 1001 G STREET, N.W., 11TH FLOOR
; CITY: WASHINGTON
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20001-4597
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE:
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/265,967
; FILING DATE: 27-JUN-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: KAGAN, SARAH A.
; REGISTRATION NUMBER: 32,141
; REFERENCE/DOCKET NUMBER: 01107.47225
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-508-9100
; TELEFAX: 202-508-9299
; TELEX: 197430 BMB UT
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2474 amino acids
; CURRENT APPLICATION DATA:
```

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; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Saccharomyces cerevisiae
US-08-305-790B-4

Query Match      42.3%; Score 44; DB 4; Length 2474;
Best Local Similarity 50.0%; Pred. No. 4.2e+02;
Matches 6; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY      5 NLPKNQWFCDDVQ 16
Db      1223 NILKNWYCSQQ 1234

RESULT 6
US-08-816-241-1
; Sequence 1, Application US/08816241
; Patent No. 5804185
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; TITLE OF INVENTION: NOVEL RNA EDITING ENZYME
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/816,241
; FILING DATE: Filed Herewith
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0239 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 190 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: PROSTUT09
; CLONE: 1646823
; US-08-816-241-1

Query Match      41.8%; Score 43.5; DB 1; Length 190;
Best Local Similarity 28.6%; Pred. No. 35;
Matches 8; Conservative 2; Mismatches 3; Indels 15; Gaps 1;

QY      2 WMCNLFKNQ-----WFCDD 14
Db      50 WKTGVFRNQVDSETHCAERCFLSWFCD 77

RESULT 7
US-08-816-241-1
; Sequence 1, Application US/08816241
; Patent No. 5804185
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; TITLE OF INVENTION: NOVEL RNA EDITING ENZYME
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/816,241
; FILING DATE: Filed Herewith
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0239 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 190 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: PROSTUT09
; CLONE: 1646823
; US-08-816-241-1

Query Match      41.8%; Score 43.5; DB 1; Length 190;
Best Local Similarity 28.6%; Pred. No. 35;
Matches 8; Conservative 2; Mismatches 3; Indels 15; Gaps 1;

QY      2 WMCNLFKNQ-----WFCDD 14
Db      50 WKTGVFRNQVDSETHCAERCFLSWFCD 77

RESULT 8
US-09-198-452A-704
; Sequence 704, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
; APPLICANT: Grifais, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments thereof and uses thereof, in particular for the diagnosis, prevention and treatment of infection
; TITLE OF INVENTION: and treatment of infection
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 704
; LENGTH: 1243
; TYPE: PRT
; ORGANISM: Chlamydia pneumoniae
US-09-198-452A-704

Query Match      41.3%; Score 43; DB 4; Length 1243;
```

```
; Sequence 1, Application US/09128395
; Patent No. 6087108
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Goli, Surva K.
; TITLE OF INVENTION: NOVEL RNA EDITING ENZYME
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/128,395
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/816,241
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0239 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 190 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: PROSTUT09
; CLONE: 1646823
; US-09-128-395-1

Query Match      41.8%; Score 43.5; DB 3; Length 190;
Best Local Similarity 28.6%; Pred. No. 35;
Matches 8; Conservative 2; Mismatches 3; Indels 15; Gaps 1;

QY      2 WMCNLFKNQ-----WFCDD 14
Db      50 WKTGVFRNQVDSETHCAERCFLSWFCD 77

RESULT 8
US-09-198-452A-704
; Sequence 704, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
; APPLICANT: Grifais, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments thereof and uses thereof, in particular for the diagnosis, prevention and treatment of infection
; TITLE OF INVENTION: and treatment of infection
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 704
; LENGTH: 1243
; TYPE: PRT
; ORGANISM: Chlamydia pneumoniae
US-09-198-452A-704

Query Match      41.3%; Score 43; DB 4; Length 1243;
```

Best Local Similarity 46.7%; Pred. No. 2.8e+02;
Matches 7; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 2 WMCNLFKNQWFCDVQ 16
DB 163 WFQDLFKDDYFTEVQ 177

RESULT 9

US-09-029-213B-22
; Sequence 22, Application US/09029213B
; Patent No. 6180098
; GENERAL INFORMATION:
; APPLICANT: CHRISTIAN, Peter D.
; TITLE OF INVENTION: RECOMBINANT HELICOVERPA BACULOVIRUSES
; TITLE OF INVENTION: EXPRESSING HETEROLOGOUS DNA
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McDermott, Will & Emery
; STREET: 600 13th Street, NW
; CITY: Washington
; STATE: District of Columbia
; COUNTRY: USA
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/029,213B
; FILING DATE: 31-AUG-1998
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Joseph Hyosuk Kim
; REGISTRATION NUMBER: 41,425
; REFERENCE/DOCKET NUMBER: 50179-048
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-756-8000
; TELEFAX: 202-756-8087
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 181 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein

US-09-029-213B-22

Query Match 40.9%; Score 42.5; DB 3; Length 181;
Best Local Similarity 26.9%; Pred. No. 46;
Matches 7; Conservative 3; Mismatches 5; Indels 11; Gaps 1;

QY 2 WMC-----NLFKNQWFCDVQ 16
DB 115 WFCFSDIFKCHDNKLFKPKWKCDIK 140

RESULT 10

US-08-828-488-8
; Sequence 8, Application US/08828488
; Patent No. 5925521
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL HUMAN SERINE
; TITLE OF INVENTION: CARBOXYPEPTIDASE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive

; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/828,488
; FILING DATE: Filed Herewith
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0241 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 480 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 190283
US-08-828-488-8

Query Match 40.4%; Score 42; DB 2; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.5e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWMCNLFKNQWFCD 14
DB 400 DMACNFMGDEWFVD 413

RESULT 11

US-09-299-689A-8
; Sequence 8, Application US/09299689A
; Patent No. 6379913
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL HUMAN SERINE
; TITLE OF INVENTION: CARBOXYPEPTIDASE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/299,689A
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/828,488
; FILING DATE:

; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0241 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 480 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 190283
US-09-299-689A-8

Query Match 40.4%; Score 42; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.5e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWMCNLFKNWFCD 14
| | | | | : | | | |
Db 400 DMACNFMGDEWFVD 413

RESULT 12

US-09-702-705-336
; Sequence 336, Application US/09702705
; Patent No. 6504010
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C14
; CURRENT APPLICATION NUMBER: US/09/702,705
; CURRENT FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 1833
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-702-705-336

Query Match 40.4%; Score 42; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.5e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWMCNLFKNWFCD 14
| | | | | : | | | |
Db 400 DMACNFMGDEWFVD 413

RESULT 13

US-09-736-457-336
; Sequence 336, Application US/09736457
; Patent No. 6509448
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom

; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; APPLICANT: Wang, Aijun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C15
; CURRENT APPLICATION NUMBER: US/09/736,457
; CURRENT FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 1864
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-736-457-336

Query Match 40.4%; Score 42; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.5e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWMCNLFKNWFCD 14
| | | | | : | | | |
Db 400 DMACNFMGDEWFVD 413

RESULT 14

US-09-614-124B-336
; Sequence 336, Application US/09614124B
; Patent No. 6630574
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.478C9
; CURRENT APPLICATION NUMBER: US/09/614,124B
; CURRENT FILING DATE: 2001-07-11
; NUMBER OF SEQ ID NOS: 1668
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-614-124B-336

Query Match 40.4%; Score 42; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.5e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWMCNLFKNWFCD 14
| | | | | : | | | |
Db 400 DMACNFMGDEWFVD 413

RESULT 15

US-09-671-325-336
; Sequence 336, Application US/09671325
; Patent No. 6667154
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick

```
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C12
; CURRENT APPLICATION NUMBER: US/09/671,325
; CURRENT FILING DATE: 2000-09-26
; NUMBER OF SEQ ID NOS: 1825
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-671-325-336
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Query Match      40.4%; Score 42; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.5e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY      1 DWMCNLFKNQWFC D 14
      ||| :|||
Db      400 DMACNFMGDEWFD 413
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Search completed: September 8, 2004, 14:31:46
Job time : 13.3 secs

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OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds
(without alignments)
114.961 Million cell updates/sec

Title: US-09-825-517A-131

Perfect score: 103
Sequence: 1 DWICNLFKNQWFCDDL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/1/pubaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/1/pubaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|--------------------|
| 1 | 103 | 100.0 | 16 | 11 | US-09-825-517A-131 |
| 2 | 101 | 98.1 | 16 | 11 | US-09-825-517A-39 |
| 3 | 100 | 97.1 | 16 | 11 | US-09-825-517A-136 |
| 4 | 99 | 96.1 | 16 | 11 | US-09-825-517A-73 |
| 5 | 98 | 95.1 | 16 | 11 | US-09-825-517A-43 |
| 6 | 97 | 94.2 | 16 | 11 | US-09-825-517A-77 |
| 7 | 96 | 93.2 | 16 | 11 | US-09-825-517A-81 |
| 8 | 96 | 93.2 | 16 | 11 | US-09-825-517A-83 |
| 9 | 95 | 92.2 | 16 | 11 | US-09-825-517A-47 |
| 10 | 95 | 92.2 | 16 | 11 | US-09-825-517A-52 |
| 11 | 94 | 91.3 | 16 | 11 | US-09-825-517A-40 |
| 12 | 94 | 91.3 | 16 | 11 | US-09-825-517A-45 |
| 13 | 94 | 91.3 | 16 | 11 | US-09-825-517A-48 |
| 14 | 94 | 91.3 | 16 | 11 | US-09-825-517A-53 |
| 15 | 94 | 91.3 | 16 | 11 | US-09-825-517A-57 |

| | | | | | | |
|----|----|------|----|----|--------------------|-------------------|
| 16 | 94 | 91.3 | 16 | 11 | US-09-825-517A-121 | Sequence 121, App |
| 17 | 94 | 91.3 | 16 | 11 | US-09-825-517A-134 | Sequence 134, App |
| 18 | 93 | 90.3 | 16 | 11 | US-09-825-517A-38 | Sequence 38, App1 |
| 19 | 93 | 90.3 | 16 | 11 | US-09-825-517A-42 | Sequence 42, App1 |
| 20 | 93 | 90.3 | 16 | 11 | US-09-825-517A-58 | Sequence 58, App1 |
| 21 | 93 | 90.3 | 16 | 11 | US-09-825-517A-62 | Sequence 62, App1 |
| 22 | 93 | 90.3 | 16 | 11 | US-09-825-517A-74 | Sequence 74, App1 |
| 23 | 93 | 90.3 | 16 | 11 | US-09-825-517A-89 | Sequence 89, App1 |
| 24 | 93 | 90.3 | 16 | 11 | US-09-825-517A-120 | Sequence 120, App |
| 25 | 93 | 90.3 | 16 | 11 | US-09-825-517A-124 | Sequence 124, App |
| 26 | 93 | 90.3 | 16 | 11 | US-09-825-517A-129 | Sequence 129, App |
| 27 | 93 | 90.3 | 16 | 11 | US-09-825-517A-145 | Sequence 145, App |
| 28 | 92 | 89.3 | 16 | 11 | US-09-825-517A-99 | Sequence 99, App1 |
| 29 | 91 | 88.3 | 16 | 11 | US-09-825-517A-37 | Sequence 37, App1 |
| 30 | 91 | 88.3 | 16 | 11 | US-09-825-517A-46 | Sequence 46, App1 |
| 31 | 91 | 88.3 | 16 | 11 | US-09-825-517A-69 | Sequence 69, App1 |
| 32 | 91 | 88.3 | 16 | 11 | US-09-825-517A-71 | Sequence 71, App1 |
| 33 | 91 | 88.3 | 16 | 11 | US-09-825-517A-108 | Sequence 108, App |
| 34 | 91 | 88.3 | 16 | 11 | US-09-825-517A-132 | Sequence 132, App |
| 35 | 90 | 87.4 | 16 | 11 | US-09-825-517A-64 | Sequence 64, App1 |
| 36 | 90 | 87.4 | 16 | 11 | US-09-825-517A-92 | Sequence 92, App1 |
| 37 | 89 | 86.4 | 16 | 11 | US-09-825-517A-128 | Sequence 128, App |
| 38 | 89 | 86.4 | 16 | 11 | US-09-825-517A-84 | Sequence 84, App1 |
| 39 | 89 | 86.4 | 16 | 11 | US-09-825-517A-98 | Sequence 98, App1 |
| 40 | 88 | 85.4 | 16 | 11 | US-09-825-517A-41 | Sequence 41, App1 |
| 41 | 88 | 85.4 | 16 | 11 | US-09-825-517A-50 | Sequence 50, App1 |
| 42 | 88 | 85.4 | 16 | 11 | US-09-825-517A-61 | Sequence 61, App1 |
| 43 | 88 | 85.4 | 16 | 11 | US-09-825-517A-66 | Sequence 66, App1 |
| 44 | 88 | 85.4 | 16 | 11 | US-09-825-517A-79 | Sequence 79, App1 |
| 45 | 88 | 85.4 | 16 | 11 | US-09-825-517A-119 | Sequence 119, App |

ALIGNMENTS

RESULT 1
US-09-825-517A-131
; Sequence 131, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 131
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-131

Query Match 100.0%; Score 103; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 7.8e-08;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 DWICNLFKNQWFCDDL 16
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Db 1 DWICNLFKNQWFCDDL 16

RESULT 2
US-09-825-517A-39
; Sequence 39, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 39
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-39

Query Match 98.1%; Score 101; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 1.5e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFCDDQL 16
|||:|||||:|||||:
Db 1 DWICNLFKNQWFCDDQM 16

RESULT 3
US-09-825-517A-136
; Sequence 136, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 136
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-136

Query Match 97.1%; Score 100; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 2.1e-07;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFCDDQL 16
|||:|||||:|||||:
Db 1 DWVCNLFKNQWFCDDQM 16

RESULT 4
US-09-825-517A-73
; Sequence 73, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24

; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 73
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-73

Query Match 96.1%; Score 99; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 2.8e-07;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFCDDQL 16
|||:|||||:|||||:
Db 1 DWVCNLFKNQWFCDDQV 16

RESULT 5
US-09-825-517A-43
; Sequence 43, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 43
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-43

Query Match 95.1%; Score 98; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 3.9e-07;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFCDDQL 16
|||:|||||:|||||:
Db 1 DWMCNLFKNQWFCDDQI 16

RESULT 6
US-09-825-517A-77
; Sequence 77, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 77
; LENGTH: 16
; TYPE: PRT

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; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-77

Query Match          94.2%; Score 97; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 5.4e-07;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDDQL 16
Db 1 DWVCNLFKNQWFCDSL 16

RESULT 7
US-09-825-517A-81
; Sequence 81, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 81
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-81

Query Match          93.2%; Score 96; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 7.5e-07;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDDQL 16
Db 1 DWVCNLFKNQWFCDAI 16

RESULT 8
US-09-825-517A-83
; Sequence 83, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 83
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-83

Query Match          93.2%; Score 96; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 7.5e-07;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
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```
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDDQL 16
Db 1 DWVCNLFKNQWFCDDL 16

RESULT 9
US-09-825-517A-47
; Sequence 47, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 47
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-47

Query Match          92.2%; Score 95; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDDQL 16
Db 1 DWICNLFKNQWFCDAI 16

RESULT 10
US-09-825-517A-52
; Sequence 52, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-52

Query Match          92.2%; Score 95; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDDQL 16
Db 1 DWVCNLFKNQWFCDDL 16
```

RESULT 11
US-09-825-517A-40
; Sequence 40, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 40
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-40

Query Match 91.3%; Score 94; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 1.4e-06;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCQD 15
Db 1 NWICNLFKNQWFCQD 15

RESULT 12
US-09-825-517A-45
; Sequence 45, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 45
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-45

Query Match 91.3%; Score 94; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.4e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCQD 14
Db 1 DWICNLFKNQWFCQD 14

RESULT 13
US-09-825-517A-48
; Sequence 48, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 48
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-48

Query Match 91.3%; Score 94; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.4e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCQD 14
Db 1 DWICNLFKNQWFCQD 14

RESULT 14
US-09-825-517A-53
; Sequence 53, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 53
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-53

Query Match 91.3%; Score 94; DB 11; Length 16;
Best Local Similarity 86.7%; Pred. No. 1.4e-06;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCQD 15
Db 1 DWICNLFKNQWFCQD 15

RESULT 15
US-09-825-517A-57
; Sequence 57, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03

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; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 57
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-57
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```
Query Match          91.3%; Score 94; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.4e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1 DWICNLFKNQWFCD 14
        ||| ||||| |||||
Db       1 DWICNLFKNQWFCD 14
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Search completed: September 8, 2004, 15:58:34
Job time : 43.85 secs
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:58:43 ; Search time 13.3 Seconds
(without alignments)
62.106 Million cell updates/sec

Title: US-09-825-517A-131
Perfect score: 103
Sequence: 1 DWICNLFKNQWFCDDL 16

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*

- 1: /cgm2_6/ptodata/2/iaa/5A-COMB.pep:*
- 2: /cgm2_6/ptodata/2/iaa/5B-COMB.pep:*
- 3: /cgm2_6/ptodata/2/iaa/6A-COMB.pep:*
- 4: /cgm2_6/ptodata/2/iaa/6B-COMB.pep:*
- 5: /cgm2_6/ptodata/2/iaa/PCTUS-COMB.pep:*
- 6: /cgm2_6/ptodata/2/iaa/backfiles.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|----------------------|
| 1 | 46 | 44.7 | 478 | 4 | US-09-137-223A-2 |
| 2 | 46 | 44.7 | 480 | 2 | US-08-828-488-8 |
| 3 | 46 | 44.7 | 480 | 4 | US-09-299-689A-8 |
| 4 | 46 | 44.7 | 480 | 4 | US-09-702-705-336 |
| 5 | 46 | 44.7 | 480 | 4 | US-09-736-457-336 |
| 6 | 46 | 44.7 | 480 | 4 | US-09-614-124B-336 |
| 7 | 46 | 44.7 | 480 | 4 | US-09-671-325-336 |
| 8 | 46 | 44.7 | 480 | 4 | US-09-589-184-336 |
| 9 | 46 | 44.7 | 2474 | 4 | US-08-265-967C-3 |
| 10 | 46 | 44.7 | 2474 | 4 | US-08-305-790B-4 |
| 11 | 45 | 43.7 | 215 | 3 | US-09-131-028A-3 |
| 12 | 45 | 43.7 | 215 | 3 | US-09-131-028A-13 |
| 13 | 45 | 43.7 | 612 | 4 | US-09-252-991A-17516 |
| 14 | 43.5 | 42.2 | 190 | 1 | US-08-816-241-1 |
| 15 | 43.5 | 42.2 | 190 | 3 | US-08-128-395-1 |
| 16 | 43 | 41.7 | 21 | 4 | US-09-337-227C-27 |
| 17 | 43 | 41.7 | 21 | 4 | US-09-723-251A-27 |
| 18 | 42 | 40.8 | 582 | 3 | US-08-194-560-2 |
| 19 | 42 | 40.8 | 3033 | 1 | US-07-925-695-8 |
| 20 | 42 | 40.8 | 3033 | 1 | US-07-925-695-9 |
| 21 | 41 | 39.8 | 125 | 3 | US-08-722-126A-7 |
| 22 | 41 | 39.8 | 125 | 5 | PCT-US93-04258-7 |
| 23 | 41 | 39.8 | 287 | 1 | US-08-365-103B-4 |
| 24 | 41 | 39.8 | 300 | 1 | US-08-365-103B-6 |
| 25 | 41 | 39.8 | 327 | 1 | US-08-365-103B-2 |
| 26 | 41 | 39.8 | 423 | 4 | US-09-489-039A-7898 |
| 27 | 41 | 39.8 | 1422 | 4 | US-08-469-260A-82 |

| | | | | | | |
|----|------|------|------|---|-------------------|-------------------|
| 28 | 41 | 39.8 | 1422 | 4 | US-08-488-446-82 | Sequence 82, Appl |
| 29 | 41 | 39.8 | 1422 | 4 | US-08-467-344A-82 | Sequence 82, Appl |
| 30 | 41 | 39.8 | 3033 | 1 | US-07-925-695-5 | Sequence 5, Appl |
| 31 | 40.5 | 39.3 | 113 | 4 | US-09-530-903C-4 | Sequence 4, Appl |
| 32 | 40.5 | 39.3 | 989 | 2 | US-08-070-301-14 | Sequence 14, Appl |
| 33 | 40 | 38.8 | 123 | 1 | US-08-530-010-25 | Sequence 25, Appl |
| 34 | 40 | 38.8 | 123 | 2 | US-08-484-101B-25 | Sequence 25, Appl |
| 35 | 40 | 38.8 | 123 | 3 | US-08-714-524D-25 | Sequence 25, Appl |
| 36 | 40 | 38.8 | 131 | 2 | US-08-834-655-9 | Sequence 9, Appl |
| 37 | 40 | 38.8 | 131 | 3 | US-08-834-033A-10 | Sequence 10, Appl |
| 38 | 40 | 38.8 | 131 | 3 | US-09-363-574-9 | Sequence 9, Appl |
| 39 | 40 | 38.8 | 131 | 4 | US-09-363-526-9 | Sequence 9, Appl |
| 40 | 40 | 38.8 | 287 | 4 | US-09-439-261-13 | Sequence 13, Appl |
| 41 | 40 | 38.8 | 287 | 4 | US-09-227-613-14 | Sequence 14, Appl |
| 42 | 40 | 38.8 | 288 | 4 | US-09-439-261-14 | Sequence 14, Appl |
| 43 | 40 | 38.8 | 288 | 4 | US-09-439-261-16 | Sequence 16, Appl |
| 44 | 40 | 38.8 | 288 | 4 | US-09-439-261-18 | Sequence 18, Appl |
| 45 | 40 | 38.8 | 288 | 4 | US-09-227-613-15 | Sequence 15, Appl |

ALIGNMENTS

RESULT 1
US-09-137-223A-2
; Sequence 2, Application US/09137223A
; Patent No. 6420525
; GENERAL INFORMATION:
; APPLICANT: Yee, David P
; APPLICANT: Deisher, Theresa A
; TITLE OF INVENTION: TESTIS-SPECIFIC TRANSCRIPTION FACTOR
; TITLE OF INVENTION: ZGCL-1
; FILE REFERENCE: 97-18
; CURRENT APPLICATION NUMBER: US/09/137,223A
; CURRENT FILING DATE: 1998-08-19
; PRIOR APPLICATION NUMBER: 06/056,130
; PRIOR FILING DATE: 1997-08-19
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 478
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-137-223A-2

Query Match 44.7%; Score 46; DB 4; Length 478;
Best Local Similarity 41.7%; Pred. No. 49;
Matches 5; Conservative 5; Mismatches 2; Indels 0; Gaps 0;
Qy 1 DWICNLFKNQWF 12
Db 322 EWLSSVYKQWF 333
:|: :|:|

RESULT 2
US-08-828-488-8
; Sequence 8, Application US/08828488
; Patent No. 5925521
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL HUMAN SERINE
; TITLE OF INVENTION: CARBOXYPEPTIDASE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA

```
;
;
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/828,488
; FILING DATE: Filed Herewith
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0241 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 480 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 190283
;
; US-08-828-488-8
;
; Query Match 44.7%; Score 46; DB 2; Length 480;
; Best Local Similarity 43.8%; Pred. No. 49;
; Matches 7; Conservative 2; Mismatches 7; Indels 0; Gaps 0;
;
; Qy 1 DWICNLFKNQWFCDDQL 16
; Db 400 DMACNFMGDEWFDVSL 415
;
; RESULT 3
; US-09-299-689A-8
; Sequence 8, Application US/09299689A
; Patent No. 6379913
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL HUMAN SERINE
; TITLE OF INVENTION: CARBOXYPEPTIDASE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESS: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/299,689A
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/828,488
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
;
; US-09-825-517a-131.ra1
;
; REFERENCE/DOCKET NUMBER: PF-0241 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 480 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 190283
;
; US-09-299-689A-8
;
; Query Match 44.7%; Score 46; DB 4; Length 480;
; Best Local Similarity 43.8%; Pred. No. 49;
; Matches 7; Conservative 2; Mismatches 7; Indels 0; Gaps 0;
;
; Qy 1 DWICNLFKNQWFCDDQL 16
; Db 400 DMACNFMGDEWFDVSL 415
;
; RESULT 4
; US-09-702-705-336
; Sequence 336, Application US/09702705
; Patent No. 6504010
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodges, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedrick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478CL14
; CURRENT APPLICATION NUMBER: US/09/702,705
; CURRENT FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 1833
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
;
; US-09-702-705-336
;
; Query Match 44.7%; Score 46; DB 4; Length 480;
; Best Local Similarity 43.8%; Pred. No. 49;
; Matches 7; Conservative 2; Mismatches 7; Indels 0; Gaps 0;
;
; Qy 1 DWICNLFKNQWFCDDQL 16
; Db 400 DMACNFMGDEWFDVSL 415
;
; RESULT 5
; US-09-736-457-336
; Sequence 336, Application US/09736457
; Patent No. 6509448
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodges, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedrick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
```

```
; APPLICANT: Fan, Liqun
; APPLICANT: Wang, AiJun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C15
; CURRENT APPLICATION NUMBER: US/09/736.457
; CURRENT FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 1864
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-736-457-336

Query Match      44.7%; Score 46; DB 4; Length 480;
Best Local Similarity 43.8%; Pred. No. 49;
Matches 7; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFCQDL 16
Db 400 DMACNFMGDEWFDVSL 415

RESULT 6
US-09-614-124B-336
; Sequence 336, Application US/09614124B
; Patent No. 6630574
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.478C9
; CURRENT APPLICATION NUMBER: US/09/614.124B
; CURRENT FILING DATE: 2001-07-11
; NUMBER OF SEQ ID NOS: 1668
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-614-124B-336

Query Match      44.7%; Score 46; DB 4; Length 480;
Best Local Similarity 43.8%; Pred. No. 49;
Matches 7; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFCQDL 16
Db 400 DMACNFMGDEWFDVSL 415

RESULT 7
US-09-671-325-336
; Sequence 336, Application US/09671325
; Patent No. 6667154
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
```

```
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C12
; CURRENT APPLICATION NUMBER: US/09/671.325
; CURRENT FILING DATE: 2000-09-26
; NUMBER OF SEQ ID NOS: 1825
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-671-325-336

Query Match      44.7%; Score 46; DB 4; Length 480;
Best Local Similarity 43.8%; Pred. No. 49;
Matches 7; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFCQDL 16
Db 400 DMACNFMGDEWFDVSL 415

RESULT 8
US-09-589-184-336
; Sequence 336, Application US/09589184
; Patent No. 6686447
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.478C8
; CURRENT APPLICATION NUMBER: US/09/589.184
; CURRENT FILING DATE: 2000-06-05
; NUMBER OF SEQ ID NOS: 827
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-589-184-336

Query Match      44.7%; Score 46; DB 4; Length 480;
Best Local Similarity 43.8%; Pred. No. 49;
Matches 7; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFCQDL 16
Db 400 DMACNFMGDEWFDVSL 415

RESULT 9
US-08-265-967C-3
; Sequence 3, Application US/08265967C
; Patent No. 6476200
; GENERAL INFORMATION:
; APPLICANT: SABATINI, DAVID M.
; APPLICANT: ERDJUMENT-BROWAGE, HEDIYE
; APPLICANT: LUI, MARY
; APPLICANT: TEMEST, PAUL
; APPLICANT: SNYDER, SOLOMON H.
; TITLE OF INVENTION: MAMMALIAN PROTEINS THAT BIND TO FKBP12
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BANNER & ALLEGRETTI, LTD
; STREET: 1001 G STREET, N.W., 11TH FLOOR
```

```
;
; CITY: WASHINGTON
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20001-4597
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/265,967C
; FILING DATE: 27-JUN-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: KAGAN, SARAH A.
; REGISTRATION NUMBER: 32,141
; REFERENCE/DOCKET NUMBER: 01107.46363
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-508-9100
; TELEFAX: 202-508-9299
; TELEX: 197430 BBME UT
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2474 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Saccharomyces cerevisiae
; US-08-265-967C-3
;
; Query Match 44.7%; Score 46; DB 4; Length 2474;
; Best Local Similarity 54.5%; Pred. No. 2.7e+02;
; Matches 6; Conservative 2; Mismatches 3; Indels 0; Gaps 0;
;
; QY 5 NLFKNQWPCDQ 15
; | : | | : |
; Db 1223 NILKNAMYCSQ 1233
;
; RESULT 10
; US-08-305-790B-4
; Sequence 4, Application US/08305790B
; Patent No. 6492106
; GENERAL INFORMATION:
; APPLICANT: SABATINI, DAVID M.
; APPLICANT: ERDUMENT-BROMAGE, HEDIYE
; APPLICANT: LUI, MARY
; APPLICANT: TEMPEST, PAUL
; APPLICANT: SNYDER, SOLOMON H.
; TITLE OF INVENTION: MAMMALIAN PROTEINS THAT BIND TO PKBP12
; TITLE OF INVENTION: IN A RAPAMYCIN-DEPENDENT FASHION
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BANNER & ALLEGRETTI, LTD
; STREET: 1001 G STREET, N.W., 11TH FLOOR
; CITY: WASHINGTON
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20001-4597
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/305,790B
; FILING DATE:
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/265,967
; FILING DATE: 27-JUN-1994
; ATTORNEY/AGENT INFORMATION:
;
; NAME: KAGAN, SARAH A.
; REGISTRATION NUMBER: 32,141
; REFERENCE/DOCKET NUMBER: 01107.47225
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-508-9100
; TELEFAX: 202-508-9299
; TELEX: 197430 BBME UT
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2474 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Saccharomyces cerevisiae
; US-08-305-790B-4
;
; Query Match 44.7%; Score 46; DB 4; Length 2474;
; Best Local Similarity 54.5%; Pred. No. 2.7e+02;
; Matches 6; Conservative 2; Mismatches 3; Indels 0; Gaps 0;
;
; QY 5 NLFKNQWPCDQ 15
; | : | | : |
; Db 1223 NILKNAMYCSQ 1233
;
; RESULT 11
; US-09-131-028A-3
; Sequence 3, Application US/09131028A
; Patent No. 6287866
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Mukerji, Pradip
; APPLICANT: Lemmel, Steven A.
; APPLICANT: Leonard, Amanda Eun-Yeong
; APPLICANT: Chaudhary, Sunita
; TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS
; FILE REFERENCE: 6004.US.P1
; CURRENT APPLICATION NUMBER: US/09/131,028A
; CURRENT FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: US 08/064,440
; PRIOR FILING DATE: 1993-05-21
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 215
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-131-028A-3
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; Query Match 43.7%; Score 45; DB 3; Length 215;
; Best Local Similarity 46.2%; Pred. No. 30;
; Matches 6; Conservative 3; Mismatches 4; Indels 0; Gaps 0;
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; QY 2 WICNLFKNQWPCD 14
; | : | | : |
; Db 12 WFCGLRGNEPCE 24
;
; RESULT 12
; US-09-131-028A-13
; Sequence 13, Application US/09131028A
; Patent No. 6287866
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Mukerji, Pradip
; APPLICANT: Lemmel, Steven A.
; APPLICANT: Leonard, Amanda Eun-Yeong
; APPLICANT: Chaudhary, Sunita
; TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS
; FILE REFERENCE: 6004.US.P1
; CURRENT APPLICATION NUMBER: US/09/131,028A
; CURRENT FILING DATE: 1998-08-07
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; PRIOR APPLICATION NUMBER: US 08/064,440
; PRIOR FILING DATE: 1993-05-21
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 215
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-131-028A-13

Query Match      43.7%; Score 45; DB 3; Length 215;
Best Local Similarity 46.2%; Pred. No. 30;
Matches 6; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY      2 WICNLFKNQWFCDD 14
DB      12 WFCGLRGNEFFCE 24

RESULT 13
US-09-252-991A-17516
; Sequence 17516, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 17516
; LENGTH: 612
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-17516

Query Match      43.7%; Score 45; DB 4; Length 612;
Best Local Similarity 87.5%; Pred. No. 88;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 WICNLFKN 9
DB      54 WICNLFAN 61

RESULT 14
US-08-816-241-1
; Sequence 1, Application US/08816241
; Patent No. 5804185
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL RNA EDITING ENZYME
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/816,241

; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/816,241
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0239 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 190 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
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; FILING DATE: Filed Herewith
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0239 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 190 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: PROSTUT09
; CLONE: 1646823
US-08-816-241-1

Query Match      42.2%; Score 43.5; DB 1; Length 190;
Best Local Similarity 26.7%; Pred. No. 43;
Matches 8; Conservative 3; Mismatches 4; Indels 15; Gaps 1;

QY      2 WICNLFKNQ-----WFCDD 16
DB      50 WKTGVFRNQVDSETHCHAERCFLSWFCDDI 79

RESULT 15
US-09-128-395-1
; Sequence 1, Application US/09128395
; Patent No. 6087108
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL RNA EDITING ENZYME
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/128,395
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/816,241
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0239 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 190 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:53:30 ; Search time 44.3 Seconds
(without alignments)
113.793 Million cell updates/sec

Title: US-09-825-517A-130

Perfect score: 107

Sequence: 1 DWVCEWFKAQWFCNML 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

1: /cgn2_6/ptodata/1/pubaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/1/pubaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/1/pubaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/1/pubaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/1/pubaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/1/pubaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|--------------------|
| 1 | 107 | 100.0 | 16 | 11 | US-09-825-517A-130 |
| 2 | 95 | 88.8 | 16 | 11 | Sequence 130, App |
| 3 | 93 | 86.9 | 16 | 11 | Sequence 68, Appl |
| 4 | 92 | 86.0 | 16 | 11 | Sequence 115, App |
| 5 | 90 | 84.1 | 16 | 11 | Sequence 146, App |
| 6 | 89 | 83.2 | 16 | 11 | Sequence 141, App |
| 7 | 89 | 83.2 | 16 | 11 | Sequence 56, Appl |
| 8 | 89 | 83.2 | 16 | 11 | Sequence 86, Appl |
| 9 | 89 | 83.2 | 16 | 11 | Sequence 105, App |
| 10 | 88 | 82.2 | 16 | 11 | Sequence 148, App |
| 11 | 88 | 82.2 | 16 | 11 | Sequence 54, Appl |
| 12 | 88 | 82.2 | 16 | 11 | Sequence 59, Appl |
| 13 | 88 | 82.2 | 16 | 11 | Sequence 75, Appl |
| 14 | 88 | 82.2 | 16 | 11 | Sequence 138, App |
| 15 | 87 | 81.3 | 16 | 11 | Sequence 143, App |

| | | | | | |
|----|----|------|----|----|--------------------|
| 16 | 87 | 81.3 | 16 | 11 | US-09-825-517A-144 |
| 17 | 87 | 81.3 | 16 | 11 | US-09-825-517A-150 |
| 18 | 86 | 80.4 | 16 | 11 | US-09-825-517A-126 |
| 19 | 85 | 79.4 | 16 | 11 | US-09-825-517A-100 |
| 20 | 84 | 78.5 | 16 | 11 | US-09-825-517A-112 |
| 21 | 84 | 78.5 | 16 | 11 | US-09-825-517A-122 |
| 22 | 84 | 78.5 | 16 | 11 | US-09-825-517A-125 |
| 23 | 84 | 78.5 | 16 | 11 | US-09-825-517A-140 |
| 24 | 84 | 78.5 | 16 | 11 | US-09-825-517A-142 |
| 25 | 84 | 78.5 | 16 | 11 | US-09-825-517A-147 |
| 26 | 82 | 76.6 | 16 | 11 | US-09-825-517A-104 |
| 27 | 82 | 76.6 | 16 | 11 | US-09-825-517A-139 |
| 28 | 81 | 75.7 | 16 | 11 | US-09-825-517A-109 |
| 29 | 80 | 74.8 | 16 | 11 | US-09-825-517A-65 |
| 30 | 80 | 74.8 | 16 | 11 | US-09-825-517A-101 |
| 31 | 79 | 73.8 | 16 | 11 | US-09-825-517A-76 |
| 32 | 79 | 73.8 | 16 | 11 | US-09-825-517A-128 |
| 33 | 78 | 72.9 | 16 | 11 | US-09-825-517A-67 |
| 34 | 78 | 72.9 | 16 | 11 | US-09-825-517A-78 |
| 35 | 78 | 72.9 | 16 | 11 | US-09-825-517A-127 |
| 36 | 77 | 72.0 | 16 | 11 | US-09-825-517A-50 |
| 37 | 77 | 72.0 | 16 | 11 | US-09-825-517A-103 |
| 38 | 77 | 72.0 | 16 | 11 | US-09-825-517A-117 |
| 39 | 76 | 71.0 | 16 | 11 | US-09-825-517A-91 |
| 40 | 75 | 70.1 | 16 | 11 | US-09-825-517A-80 |
| 41 | 75 | 70.1 | 16 | 11 | US-09-825-517A-114 |
| 42 | 75 | 70.1 | 16 | 11 | US-09-825-517A-119 |
| 43 | 74 | 69.2 | 16 | 11 | US-09-825-517A-49 |
| 44 | 74 | 69.2 | 16 | 11 | US-09-825-517A-52 |
| 45 | 74 | 69.2 | 16 | 11 | US-09-825-517A-61 |

ALIGNMENTS

RESULT 1
US-09-825-517A-130
; Sequence 130, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Radner, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 130
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-130

Query Match 100.0%; Score 107; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 1e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEWFKAQWFCNML 16
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Db 1 DWVCEWFKAQWFCNML 16

RESULT 2
US-09-825-517A-68
; Sequence 68, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

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; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 68
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-68

Query Match      88.8%; Score 95; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 4.2e-06;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEWFKAQWFCNML 16
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Db 1 DWVCEWFKPQWFCNPL 16

RESULT 3
US-09-825-517A-115
; Sequence 115, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 115
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-115

Query Match      86.9%; Score 93; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 7.7e-06;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEWFKAQWFCNML 16
   ||||| |||||
Db 1 DWVCEWFKPQWFCNLL 16

RESULT 4
US-09-825-517A-146
; Sequence 146, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
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; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 146
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-146

Query Match      86.0%; Score 92; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEWFKAQWFCNML 16
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Db 1 DWVCEWLKQWFCNSL 16

RESULT 5
US-09-825-517A-141
; Sequence 141, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 141
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-141

Query Match      84.1%; Score 90; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.9e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWFKAQWFCNML 16
   ||||| |||||
Db 1 DWVCEWLKQWFCNAL 16

RESULT 6
US-09-825-517A-56
; Sequence 56, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 56
; LENGTH: 16
; TYPE: PRT
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; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-56

Query Match      83.2%; Score 89; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 2.6e-05;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEWFKAQWFCNML 16
   |||||:|||||
Db 1 DWVCEWFKAQWFCNAL 16

RESULT 7
US-09-825-517A-86
; Sequence 86, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 86
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-86

Query Match      83.2%; Score 89; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.6e-05;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEWFKAQWFCNML 16
   |||||:|||||
Db 1 DWVCEFFKKQWFCNLL 16

RESULT 8
US-09-825-517A-105
; Sequence 105, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 105
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-105

Query Match      83.2%; Score 89; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.6e-05;

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Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEWFKAQWFCNML 16
   |||||:|||||
Db 1 DWVCEYFKSQWMCNML 16

RESULT 9
US-09-825-517A-148
; Sequence 148, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 148
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-148

Query Match      83.2%; Score 89; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.6e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEWFKAQWFCNML 16
   |||||:|||||
Db 1 DWVCEWLKHQWFCNAL 16

RESULT 10
US-09-825-517A-54
; Sequence 54, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 54
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-54

Query Match      82.2%; Score 88; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 3.6e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEWFKAQWFCNML 16
   |||||:|||||
Db 1 DWVCEWLKQWACNML 16

```

RESULT 11

US-09-825-517A-59
 ; Sequence 59, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 59
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 ; US-09-825-517A-59

Query Match 82.2%; Score 88; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 3.6e-05;
 Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWFKAQWFCNML 16
 |||||:|||||:
 Db 1 DWVCEYFKQWFCNVL 16

RESULT 12

US-09-825-517A-75
 ; Sequence 75, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 75
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 ; US-09-825-517A-75

Query Match 82.2%; Score 88; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 3.6e-05;
 Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWFKAQWFCNML 16
 |||||:|||||:
 Db 1 DWVCEFFKQWFCNVL 16

RESULT 13

US-09-825-517A-138
 ; Sequence 138, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 138
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 ; US-09-825-517A-138

Query Match 82.2%; Score 88; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 3.6e-05;
 Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWFKAQWFCNML 16
 |||||:|||||:
 Db 1 DWVCEWLKQWACNML 16

RESULT 14

US-09-825-517A-143
 ; Sequence 143, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 143
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 ; US-09-825-517A-143

Query Match 82.2%; Score 88; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 3.6e-05;
 Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWFKAQWFCNML 16
 |||||:|||||:
 Db 1 DWVCEWLKQWACNML 16

RESULT 15

US-09-825-517A-137
 ; Sequence 137, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03

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; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 137
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-137
```

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Query Match      81.3%; Score 87; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 4.8e-05;
Matches 12; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
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Qy      1 DMVCEWFKAOWFCNML 16
          |||||:|:|:|:|:|
Db      1 DMVCEFFKXQWYCNIL 16
```

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Search completed: September 8, 2004, 14:25:10
Job time : 45.3 secs
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:51:54 ; Search time 12.2 Seconds
(without alignments)
67.706 Million cell updates/sec

Title: US-09-825-517A-130

Perfect score: 107

Sequence: 1 DWCEWFKQWFCNNL 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA:*
1: /cgn2_6/ptodata/2/iaa/5A.COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B.COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A.COMB.pep.*
4: /cgn2_6/ptodata/2/iaa/6B.COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/PCTUS.COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|----------------------|
| 1 | 51 | 47.7 | 487 | 4 | US-09-134-000C-6001 |
| 2 | 49 | 45.8 | 677 | 3 | US-09-061-768A-4 |
| 3 | 49 | 45.8 | 677 | 4 | US-09-764-246-4 |
| 4 | 46 | 43.0 | 71 | 4 | US-09-621-976-5666 |
| 5 | 46 | 43.0 | 89 | 4 | US-09-621-976-7155 |
| 6 | 45 | 42.1 | 393 | 1 | US-08-689-974-4 |
| 7 | 45 | 42.1 | 393 | 3 | US-09-058-376-4 |
| 8 | 45 | 42.1 | 411 | 2 | US-08-568-459A-20 |
| 9 | 45 | 42.1 | 411 | 2 | US-08-487-826B-32 |
| 10 | 45 | 42.1 | 411 | 4 | US-09-210-288-20 |
| 11 | 45 | 42.1 | 2710 | 2 | US-08-568-459A-12 |
| 12 | 45 | 42.1 | 2710 | 2 | US-08-487-826B-12 |
| 13 | 45 | 42.1 | 2710 | 4 | US-09-210-288-12 |
| 14 | 45 | 42.1 | 3060 | 2 | US-08-487-826B-14 |
| 15 | 43.5 | 40.7 | 381 | 4 | US-09-721-870-28 |
| 16 | 43 | 40.2 | 18 | 4 | US-10-158-847-83 |
| 17 | 43 | 40.2 | 24 | 1 | US-08-484-635-86 |
| 18 | 43 | 40.2 | 24 | 2 | US-08-484-631-86 |
| 19 | 43 | 40.2 | 24 | 2 | US-08-827-570-86 |
| 20 | 42 | 39.3 | 63 | 4 | US-09-497-491-47 |
| 21 | 42 | 39.3 | 475 | 4 | US-09-252-991A-28111 |
| 22 | 42 | 39.3 | 486 | 4 | US-09-352-991A-31879 |
| 23 | 41.5 | 38.8 | 20 | 2 | US-07-894-063A-6 |
| 24 | 41.5 | 38.8 | 30 | 1 | US-08-262-037-16 |
| 25 | 41.5 | 38.8 | 38 | 1 | US-08-262-037-95 |
| 26 | 41.5 | 38.8 | 47 | 1 | US-08-262-037-96 |
| 27 | 41.5 | 38.8 | 106 | 3 | US-08-444-818-24 |

28 41.5 38.8 176 3 US-08-444-818-28
29 41.5 38.8 360 4 US-08-850-328-4
30 41.5 38.8 516 3 US-08-867-611-6
31 41.5 38.8 516 4 US-09-690-359-6
32 41.5 38.8 516 5 PCT-US92-06965A-11
33 41.5 38.8 798 3 US-08-867-611-36
34 41.5 38.8 798 4 US-08-867-611-36
35 41.5 38.8 859 3 US-08-444-818-30
36 41.5 38.8 1040 4 US-10-104-966-9
37 41.5 38.8 1786 3 US-08-444-818-54
38 41.5 38.8 2261 3 US-08-444-818-66
39 41.5 38.8 2436 3 US-08-444-818-75
40 41.5 38.8 2772 3 US-08-444-818-89
41 41.5 38.8 2894 2 US-08-466-975A-23
42 41.5 38.8 2894 2 US-08-391-671A-23
43 41.5 38.8 2894 3 US-08-467-902A-23
44 41.5 38.8 2894 3 US-09-275-265-23
45 41.5 38.8 2894 4 US-09-941-611-23

ALIGNMENTS

RESULT 1
US-09-134-000C-6001
; Sequence 6001, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134.000C
; PRIOR FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6001
; LENGTH: 487
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
US-09-134-000C-6001

Query Match 47.7%; Score 51; DB 4; Length 487;
Best Local Similarity 53.8%; Pred. No. 5.5;
Matches 7; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWCEWFKQWFC 13
Db 29 NWFTKWFKAERFC 41

RESULT 2
US-09-061-768A-4
; Sequence 4, Application US/09061768A
; Patent No. 6204037
; GENERAL INFORMATION:
; APPLICANT: BRASH, ALAN R.
; APPLICANT: BOEGLIN, WILLIAM E.
; APPLICANT: JISAKA, MITSUO
; TITLE OF INVENTION: LIPOXYGENASE PROTEINS AND NUCLEIC ACIDS
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARLES A. TAYLOR, JR.
; STREET: SUITE 1400, UNIVERSITY TOWER, 3100 TOWER BOULEVARD
; CITY: DURHAM
; STATE: NORTH CAROLINA
; COUNTRY: USA
; ZIP: 27707
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4 MB storage
; COMPUTER: IBM PC/XT/AT compatible

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;; OPERATING SYSTEM: Windows 3.1
;; SOFTWARE: WORD PERFECT 6.1 and ASCII
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/09/061.768A
;; FILING DATE: APRIL 16, 1998
;; CLASSIFICATION: 435
;; PRIOR APPLICATION DATA: NONE
;; APPLICATION NUMBER:
;; FILING DATE:
;; ATTORNEY/AGENT INFORMATION:
;; NAME: ARLES A. TAYLOR, JR.
;; REGISTRATION NUMBER: 39,395
;; REFERENCE/DOCKET NUMBER: 1242/5
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (919) 493-8000
;; TELEFAX: (919) 419-0383
;; TELEX:
;; INFORMATION FOR SEQ ID NO: 4:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 677 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: unknown
;; US-09-061-768A-4

Query Match 45.8%; Score 49; DB 3; Length 677;
Best Local Similarity 50.0%; Pred. No. 15;
Matches 5; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 2 WVCEWFKAQW 11
DB 88 WFCRWFLEW 97

RESULT 3
US-09-764-246-4
; Sequence 4, Application US/09764246
; Patent No. 6649355
; GENERAL INFORMATION:
; APPLICANT: BRASH, ALAN R.
; BOEGLIN, WILLIAM E.
; JISAKA, MITSUO
; TITLE OF INVENTION: LIPOXYGENASE PROTEINS AND NUCLEIC ACIDS
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARLES A. TAYLOR, JR.
; STREET: SUITE 1400, UNIVERSITY TOWER, 3100 TOWER BOULEVARD
; CITY: DURHAM
; STATE: NORTH CAROLINA
; COUNTRY: USA
; ZIP: 27707
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4 MB storage
; COMPUTER: IBM PC/XT/AT compatible
; OPERATING SYSTEM: Windows 3.1
; SOFTWARE: WORD PERFECT 6.1 and ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/764,246
; FILING DATE: 17-Jan-2001
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: <Unknown>
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: ARLES A. TAYLOR, JR.
; REGISTRATION NUMBER: 39,395
; REFERENCE/DOCKET NUMBER: 1242/5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (919) 493-8000
; TELEFAX: (919) 419-0383
; TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
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;; LENGTH: 677 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: unknown
;; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-764-246-4

Query Match 45.8%; Score 49; DB 4; Length 677;
Best Local Similarity 50.0%; Pred. No. 15;
Matches 5; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 2 WVCEWFKAQW 11
DB 88 WFCRWFLEW 97

RESULT 4
US-09-621-976-5666
; Sequence 5666, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 5666
; LENGTH: 71
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -24...-1
US-09-621-976-5666

Query Match 43.0%; Score 46; DB 4; Length 71;
Best Local Similarity 46.2%; Pred. No. 4.1;
Matches 6; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 DWVCEWFKAQWFC 13
DB 54 DWNCVWEPHMLC 66

RESULT 5
US-09-621-976-7155
; Sequence 7155, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 7155
; LENGTH: 89
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-621-976-7155

Query Match 43.0%; Score 46; DB 4; Length 89;
Best Local Similarity 45.5%; Pred. No. 5.2;
Matches 5; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEWFKAQW 11
```



```
; REFERENCE/DOCKET NUMBER: NIH121.001CP1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 411 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; US-08-459A-20

Query Match 42.1%; Score 45; DB 2; Length 411;
Best Local Similarity 50.0%; Pred. No. 36;
Matches 6; Conservative 3; Mismatches 1; Indels 2; Gaps 1;

Qy 2 WVCEWFKAQWFC 13
|:|:|:|:|
Db 229 WMTW--AEWYC 238

RESULT 10
US-09-210-288-20
; Sequence 20, Application US/09210288
; Patent No. 6392026
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellens, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/210,288
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fuller, Michael
; REGISTRATION NUMBER: 36,516
; REFERENCE/DOCKET NUMBER: NIH121.1FWDV1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 411 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; US-09-210-288-20

Query Match 42.1%; Score 45; DB 4; Length 411;
Best Local Similarity 50.0%; Pred. No. 36;
Matches 6; Conservative 3; Mismatches 1; Indels 2; Gaps 1;

Qy 2 WVCEWFKAQWFC 13
|:|:|:|:|
Db 229 WMTW--AEWYC 238

RESULT 11
US-08-568-459A-12
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; REFERENCE/DOCKET NUMBER: NIH121.001CP1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 411 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; US-08-459A-20

Query Match 42.1%; Score 45; DB 2; Length 411;
Best Local Similarity 50.0%; Pred. No. 36;
Matches 6; Conservative 3; Mismatches 1; Indels 2; Gaps 1;

Qy 2 WVCEWFKAQWFC 13
|:|:|:|:|
Db 229 WMTW--AEWYC 238

RESULT 9
US-08-487-826B-32
; Sequence 32, Application US/08487826B
; Patent No. 5993827
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellens, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/487,826B
; FILING DATE: 10-SEP-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Israelien, Ned
; REGISTRATION NUMBER: 29,655
; REFERENCE/DOCKET NUMBER: NIH121.001CP1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 32:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 411 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
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; REGISTRATION NUMBER: 36,516
; REFERENCE/DOCKET NUMBER: NIH121.1FWDV1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2710 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Plasmodium falciparum
; US-09-210-288-12

Query Match 42.1%; Score 45; DB 4; Length 2710;
Best Local Similarity 50.0%; Pred. No. 2.5e+02;
Matches 6; Conservative 3; Mismatches 1; Indels 2; Gaps 1;

Qy 2 WVCEWFKAQWFC 13
Db 1136 WMTW--AEWYC 1147

RESULT 14
US-08-487-826B-14
; Sequence 14, Application US/08487826B
; Patent No. 5993827
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellem, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/487,826B
; FILING DATE: 10-SEP-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Israel, Ned
; REGISTRATION NUMBER: 29,655
; REFERENCE/DOCKET NUMBER: NIH121.001CP1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3060 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-487-826B-14

Query Match 42.1%; Score 45; DB 2; Length 3060;
Best Local Similarity 50.0%; Pred. No. 2.5e+02;
Matches 6; Conservative 3; Mismatches 1; Indels 2; Gaps 1;

Qy 2 WVCEWFKAQWFC 13
Db 1136 WMTW--AEWYC 1147

RESULT 15
US-09-721-870-28
; Sequence 28, Application US/09721870
; Patent No. 6632621
; GENERAL INFORMATION:
; APPLICANT: Lowery, David E.
; APPLICANT: Geary, Timothy G.
; APPLICANT: Kubiak, Teresa M.
; APPLICANT: Larsen, Martha J.
; TITLE OF INVENTION: MODULATORS OF G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 28341/6223
; CURRENT APPLICATION NUMBER: US/09/721,870
; CURRENT FILING DATE: 2000-11-24
; NUMBER OF SEQ ID NOS: 180
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 28
; LENGTH: 381
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-721-870-28

Query Match 40.7%; Score 43.5; DB 4; Length 381;
Best Local Similarity 28.0%; Pred. No. 55;
Matches 7; Conservative 3; Mismatches 4; Indels 11; Gaps 1;

Qy 2 WVC-----EWFKAQWFCNM 15
Db 80 WICLPTTLINSIFTEWLMGQFFCRL 104

Search completed: September 8, 2004, 12:58:40
Job time : 13.2 secs
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; REGISTRATION NUMBER: 36,516
; REFERENCE/DOCKET NUMBER: NIH121.1FWDV1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2710 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Plasmodium falciparum
; US-09-210-288-12

Query Match 42.1%; Score 45; DB 4; Length 2710;
Best Local Similarity 50.0%; Pred. No. 2.5e+02;
Matches 6; Conservative 3; Mismatches 1; Indels 2; Gaps 1;

Qy 2 WVCEWFKAQWFC 13
Db 1136 WMTW--AEWYC 1147

RESULT 14
US-08-487-826B-14
; Sequence 14, Application US/08487826B
; Patent No. 5993827
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellem, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/487,826B
; FILING DATE: 10-SEP-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Israel, Ned
; REGISTRATION NUMBER: 29,655
; REFERENCE/DOCKET NUMBER: NIH121.001CP1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3060 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-487-826B-14

Query Match 42.1%; Score 45; DB 2; Length 3060;
Best Local Similarity 50.0%; Pred. No. 2.5e+02;
Matches 6; Conservative 3; Mismatches 1; Indels 2; Gaps 1;

Qy 2 WVCEWFKAQWFC 13
Db 1136 WMTW--AEWYC 1147

RESULT 15
US-09-721-870-28
; Sequence 28, Application US/09721870
; Patent No. 6632621
; GENERAL INFORMATION:
; APPLICANT: Lowery, David E.
; APPLICANT: Geary, Timothy G.
; APPLICANT: Kubiak, Teresa M.
; APPLICANT: Larsen, Martha J.
; TITLE OF INVENTION: MODULATORS OF G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 28341/6223
; CURRENT APPLICATION NUMBER: US/09/721,870
; CURRENT FILING DATE: 2000-11-24
; NUMBER OF SEQ ID NOS: 180
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 28
; LENGTH: 381
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-721-870-28

Query Match 40.7%; Score 43.5; DB 4; Length 381;
Best Local Similarity 28.0%; Pred. No. 55;
Matches 7; Conservative 3; Mismatches 4; Indels 11; Gaps 1;

Qy 2 WVC-----EWFKAQWFCNM 15
Db 80 WICLPTTLINSIFTEWLMGQFFCRL 104

Search completed: September 8, 2004, 12:58:40
Job time : 13.2 secs
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:53:30 ; Search time 44.3 Seconds
(without alignments)
113.793 Million cell updates/sec

Title: US-09-825-517A-129

Perfect score: 103

Sequence: 1 DWVCNLFKNQWFCDDVM 16

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Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

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2: /cgn2_6/ptodata/1/pubaa/PCF_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubaa/PCFUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/1/pubaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/1/pubaa/US10B_PUBCOMB.pep.*
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17: /cgn2_6/ptodata/1/pubaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/1/pubaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|--------------------|
| 1 | 103 | 100.0 | 16 | 11 | US-09-825-517A-42 |
| 2 | 103 | 100.0 | 16 | 11 | US-09-825-517A-129 |
| 3 | 100 | 97.1 | 16 | 11 | US-09-825-517A-38 |
| 4 | 100 | 97.1 | 16 | 11 | US-09-825-517A-52 |
| 5 | 99 | 96.1 | 16 | 11 | US-09-825-517A-124 |
| 6 | 98 | 95.1 | 16 | 11 | US-09-825-517A-50 |
| 7 | 98 | 95.1 | 16 | 11 | US-09-825-517A-58 |
| 8 | 98 | 95.1 | 16 | 11 | US-09-825-517A-62 |
| 9 | 98 | 95.1 | 16 | 11 | US-09-825-517A-74 |
| 10 | 98 | 95.1 | 16 | 11 | US-09-825-517A-120 |
| 11 | 97 | 94.2 | 16 | 11 | US-09-825-517A-37 |
| 12 | 97 | 94.2 | 16 | 11 | US-09-825-517A-136 |
| 13 | 96 | 93.2 | 16 | 11 | US-09-825-517A-39 |
| 14 | 96 | 93.2 | 16 | 11 | US-09-825-517A-45 |
| 15 | 96 | 93.2 | 16 | 11 | US-09-825-517A-46 |

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|----|----|------|----|----|--------------------|--------------------|
| 16 | 96 | 93.2 | 16 | 11 | US-09-825-517A-81 | Sequence 81, Appl |
| 17 | 96 | 93.2 | 16 | 11 | US-09-825-517A-83 | Sequence 83, Appl |
| 18 | 96 | 93.2 | 16 | 11 | US-09-825-517A-121 | Sequence 121, Appl |
| 19 | 95 | 92.2 | 16 | 11 | US-09-825-517A-69 | Sequence 69, Appl |
| 20 | 95 | 92.2 | 16 | 11 | US-09-825-517A-128 | Sequence 128, Appl |
| 21 | 95 | 92.2 | 16 | 11 | US-09-825-517A-132 | Sequence 132, Appl |
| 22 | 95 | 92.2 | 16 | 11 | US-09-825-517A-145 | Sequence 145, Appl |
| 23 | 94 | 91.3 | 16 | 11 | US-09-825-517A-47 | Sequence 47, Appl |
| 24 | 94 | 91.3 | 16 | 11 | US-09-825-517A-48 | Sequence 48, Appl |
| 25 | 94 | 91.3 | 16 | 11 | US-09-825-517A-53 | Sequence 53, Appl |
| 26 | 94 | 91.3 | 16 | 11 | US-09-825-517A-73 | Sequence 73, Appl |
| 27 | 94 | 91.3 | 16 | 11 | US-09-825-517A-77 | Sequence 77, Appl |
| 28 | 93 | 90.3 | 16 | 11 | US-09-825-517A-57 | Sequence 57, Appl |
| 29 | 93 | 90.3 | 16 | 11 | US-09-825-517A-84 | Sequence 84, Appl |
| 30 | 93 | 90.3 | 16 | 11 | US-09-825-517A-119 | Sequence 119, Appl |
| 31 | 93 | 90.3 | 16 | 11 | US-09-825-517A-131 | Sequence 131, Appl |
| 32 | 93 | 90.3 | 16 | 11 | US-09-825-517A-134 | Sequence 134, Appl |
| 33 | 92 | 89.3 | 16 | 11 | US-09-825-517A-99 | Sequence 99, Appl |
| 34 | 91 | 88.3 | 16 | 11 | US-09-825-517A-41 | Sequence 41, Appl |
| 35 | 91 | 88.3 | 16 | 11 | US-09-825-517A-43 | Sequence 43, Appl |
| 36 | 91 | 88.3 | 16 | 11 | US-09-825-517A-98 | Sequence 98, Appl |
| 37 | 90 | 87.4 | 16 | 11 | US-09-825-517A-66 | Sequence 66, Appl |
| 38 | 89 | 86.4 | 16 | 11 | US-09-825-517A-61 | Sequence 61, Appl |
| 39 | 89 | 86.4 | 16 | 11 | US-09-825-517A-64 | Sequence 64, Appl |
| 40 | 88 | 85.4 | 16 | 11 | US-09-825-517A-40 | Sequence 40, Appl |
| 41 | 88 | 85.4 | 16 | 11 | US-09-825-517A-71 | Sequence 71, Appl |
| 42 | 88 | 85.4 | 16 | 11 | US-09-825-517A-79 | Sequence 79, Appl |
| 43 | 88 | 85.4 | 16 | 11 | US-09-825-517A-108 | Sequence 108, Appl |
| 44 | 87 | 84.5 | 16 | 11 | US-09-825-517A-89 | Sequence 89, Appl |
| 45 | 87 | 84.5 | 16 | 11 | US-09-825-517A-92 | Sequence 92, Appl |

ALIGNMENTS

RESULT 1
US-09-825-517A-42
; Sequence 42, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 42
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-42

Query Match 100.0%; Score 103; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 9.3e-08;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDVM 16
Db 1 DWVCNLFKNQWFCDDVM 16

RESULT 2

US-09-825-517A-129
; Sequence 129, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 129
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-129

Query Match 100.0%; Score 103; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 9.3e-08;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDDVM 16
Db 1 DWVCNLFKNQWFCDDVM 16

RESULT 3

US-09-825-517A-38
; Sequence 38, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 38
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-38

Query Match 97.1%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 2.4e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDDVM 16
Db 1 DWVCNLFKNQWFCDDLM 16

RESULT 4

US-09-825-517A-52
; Sequence 52, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24

; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-52

Query Match 97.1%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 2.4e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDDVM 16
Db 1 DWVCNLFKNQWFCDDL 16

RESULT 5

US-09-825-517A-124
; Sequence 124, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 124
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-124

Query Match 96.1%; Score 99; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 3.4e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDDVM 16
Db 1 DWVCNLFKNQWFCDDV 16

RESULT 6

US-09-825-517A-50
; Sequence 50, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 50
; LENGTH: 16
; TYPE: PRT

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; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-50

Query Match          95.1%; Score 98; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 4.6e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCVDM 16
   |||||.....|:|
Db 1 DWVCNLFKNQWFCNVM 16

RESULT 7
US-09-825-517A-58
; Sequence 58, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 58
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-58

Query Match          95.1%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 4.6e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCVDV 15
   |||||.....|
Db 1 DWVCNLFKNQWFCVDV 15

RESULT 8
US-09-825-517A-62
; Sequence 62, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 62
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-62

Query Match          95.1%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 4.6e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCVDV 15
   |||||.....|
Db 1 DWVCNLFKNQWFCVDV 15

RESULT 9
US-09-825-517A-74
; Sequence 74, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 74
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-74

Query Match          95.1%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 4.6e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCVDV 15
   |||||.....|
Db 1 DWVCNLFKNQWFCVDV 15

RESULT 10
US-09-825-517A-120
; Sequence 120, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 120
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-120

Query Match          95.1%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 4.6e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCVDV 15
   |||||.....|
Db 1 DWVCNLFKNQWFCVDV 15
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; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 46
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-46

Query Match      93.2%; Score 96; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 8.8e-07;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy      1 DWMCNLFKNQWFCDDV 16
      ||:|||||:
Db      1 DWMCNLFKNQWFCDDV 16

Search completed: September 8, 2004, 14:25:09
Job time : 44.3 secs
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:51:54 ; Search time 12.2 Seconds
(without alignments)
67.706 Million cell updates/sec

Title: US-09-825-517A-129

Perfect score: 103

Sequence: 1 DWVCNLFKNQWFCVDV 16

Scoring table: BIOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA.*

1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep.*

2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep.*

3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep.*

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6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|----------------------|
| 1 | 48 | 46.6 | 215 | 3 | US-09-131-028A-3 |
| 2 | 48 | 46.6 | 215 | 3 | US-09-131-028A-13 |
| 3 | 45 | 43.7 | 478 | 4 | US-09-137-223A-2 |
| 4 | 44 | 42.7 | 612 | 4 | US-09-252-991A-17516 |
| 5 | 43.5 | 42.2 | 670 | 4 | US-09-587-811A-2 |
| 6 | 43 | 41.7 | 21 | 4 | US-09-337-227C-27 |
| 7 | 43 | 41.7 | 21 | 4 | US-09-723-251A-27 |
| 8 | 43 | 41.7 | 480 | 2 | US-08-828-488-8 |
| 9 | 43 | 41.7 | 480 | 4 | US-09-299-689A-8 |
| 10 | 43 | 41.7 | 480 | 4 | US-09-702-705-336 |
| 11 | 43 | 41.7 | 480 | 4 | US-09-736-457-336 |
| 12 | 43 | 41.7 | 480 | 4 | US-09-614-124B-336 |
| 13 | 43 | 41.7 | 480 | 4 | US-09-671-325-336 |
| 14 | 43 | 41.7 | 480 | 4 | US-09-589-184-336 |
| 15 | 42.5 | 41.3 | 190 | 1 | US-08-816-241-1 |
| 16 | 42.5 | 41.3 | 190 | 3 | US-09-128-395-1 |
| 17 | 41 | 39.8 | 326 | 2 | US-08-671-978A-7 |
| 18 | 41 | 39.8 | 582 | 3 | US-08-194-560-2 |
| 19 | 41 | 39.8 | 2474 | 4 | US-08-265-967C-3 |
| 20 | 41 | 39.8 | 2474 | 4 | US-08-305-790B-4 |
| 21 | 40.5 | 39.3 | 181 | 3 | US-09-029-213B-22 |
| 22 | 39.5 | 38.3 | 286 | 4 | US-09-328-352-5022 |
| 23 | 39 | 37.9 | 80 | 4 | US-09-673-395A-447 |
| 24 | 39 | 37.9 | 131 | 2 | US-08-834-655-9 |
| 25 | 39 | 37.9 | 131 | 3 | US-08-834-033A-10 |
| 26 | 39 | 37.9 | 131 | 3 | US-09-363-574-9 |
| 27 | 39 | 37.9 | 131 | 4 | US-09-363-526-9 |

ALIGNMENTS

RESULT 1

US-09-131-028A-3
; Sequence 3, Application US/09131028A
; Patent No. 6287866

; GENERAL INFORMATION:

; APPLICANT: Abbott Laboratories

; APPLICANT: Mukerji, Pradip

; APPLICANT: Lemmel, Steven A.

; APPLICANT: Leonard, Amanda Eun-Yeong

; APPLICANT: Chaudhary, Sunita

; TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS

; FILE REFERENCE: 6004.US.P1

; CURRENT APPLICATION NUMBER: US/09/131,028A

; CURRENT FILING DATE: 1998-08-07

; PRIOR APPLICATION NUMBER: US 08/064,440

; PRIOR FILING DATE: 1993-05-21

; NUMBER OF SEQ ID NOS: 22

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 3

; LENGTH: 215

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-131-028A-3

Query Match 46.6%; Score 48; DB 3; Length 215;

Best Local Similarity 50.0%; Pred.No.10;

Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 2 WVCNLFKNQWFCVDV 15

Db 12 WFCGLRGNEFFCEV 25

RESULT 2

US-09-131-028A-13

; Sequence 13, Application US/09131028A

; Patent No. 6287866

; GENERAL INFORMATION:

; APPLICANT: Abbott Laboratories

; APPLICANT: Mukerji, Pradip

; APPLICANT: Lemmel, Steven A.

; APPLICANT: Leonard, Amanda Eun-Yeong

; APPLICANT: Chaudhary, Sunita

; TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS

; FILE REFERENCE: 6004.US.P1

; CURRENT APPLICATION NUMBER: US/09/131,028A

; CURRENT FILING DATE: 1998-08-07

; PRIOR APPLICATION NUMBER: US 08/064,440

; PRIOR FILING DATE: 1993-05-21

; NUMBER OF SEQ ID NOS: 22

Sequence 20, Appl
Sequence 19, Appl
Sequence 13, Appl
Sequence 13, Appl
Sequence 14, Appl
Sequence 14, Appl
Sequence 16, Appl
Sequence 18, Appl
Sequence 15, Appl
Sequence 11, Appl
Sequence 43, Appl
Sequence 12, Appl
Sequence 42, Appl
Sequence 3, Appl
Sequence 39, Appl
Sequence 45, Appl
Sequence 7453, Ap
Sequence 82, Appl

28 39 37.9 219 4 US-09-439-261-20
29 39 37.9 219 4 US-09-227-613-19
30 39 37.9 227 4 US-08-213-419B-13
31 39 37.9 287 4 US-09-439-261-13
32 39 37.9 287 4 US-09-227-613-14
33 39 37.9 288 4 US-09-439-261-14
34 39 37.9 288 4 US-09-439-261-16
35 39 37.9 288 4 US-09-439-261-18
36 39 37.9 288 4 US-09-227-613-15
37 39 37.9 444 4 US-09-439-261-11
38 39 37.9 444 4 US-09-439-261-43
39 39 37.9 444 4 US-09-227-613-12
40 39 37.9 444 4 US-09-227-613-42
41 39 37.9 444 4 US-09-048-888-3
42 39 37.9 445 4 US-09-439-261-39
43 39 37.9 445 4 US-09-439-261-45
44 39 37.9 932 4 US-09-328-352-7453
45 39 37.9 1422 4 US-08-469-260A-82

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; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 215
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-131-028A-13

Query Match          46.6%; Score 48; DB 3; Length 215;
Best Local Similarity 50.0%; Pred. No. 10;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY      2 WVCNLFKNQFCDV 15
DB      12 WFCGLRGNERFCEV 25

RESULT 3
US-09-137-223A-2
; Sequence 2, Application US/09137223A
; Patent No. 6420525
; GENERAL INFORMATION:
; APPLICANT: Yee, David P
; APPLICANT: Deisher, Theresa A
; TITLE OF INVENTION: TESTIS-SPECIFIC TRANSCRIPTION FACTOR
; FILE REFERENCE: 97-18
; CURRENT APPLICATION NUMBER: US/09/137,223A
; CURRENT FILING DATE: 1998-08-19
; PRIOR FILING DATE: 1997-08-19
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 478
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-137-223A-2

Query Match          43.7%; Score 45; DB 4; Length 478;
Best Local Similarity 41.7%; Pred. No. 62;
Matches 5; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY      1 DWVCNLFKNQWF 12
DB      322 EWLSVYKQQWF 333

RESULT 4
US-09-252-991A-17516
; Sequence 17516, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 17516
; LENGTH: 612
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-17516

Query Match          42.7%; Score 44; DB 4; Length 612;
Best Local Similarity 75.0%; Pred. No. 1.1e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
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QY      2 WVCNLFKN 9
DB      54 WICNLFAN 61

RESULT 5
US-09-587-811A-2
; Sequence 2, Application US/09587811A
; Patent No. 6677443
; GENERAL INFORMATION:
; APPLICANT: Malutan, Tabita
; APPLICANT: Donly, Cam
; APPLICANT: Caveney, Stan
; TITLE OF INVENTION: INSECT MONOAMINE TRANSPORTER AND METHODS
; FILE REFERENCE: AP32505 072667.0133
; CURRENT APPLICATION NUMBER: US/09/587,811A
; CURRENT FILING DATE: 2000-06-06
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 670
; TYPE: PRT
; ORGANISM: Trichoplusia ni
US-09-587-811A-2

Query Match          42.2%; Score 43.5; DB 4; Length 670;
Best Local Similarity 56.2%; Pred. No. 1.4e+02;
Matches 9; Conservative 1; Mismatches 5; Indels 1; Gaps 1;

QY      2 W-VCNLFKNQWFCDVM 16
DB      176 WKICPLFKGVGFCVM 191

RESULT 6
US-09-337-227C-27
; Sequence 27, Application US/09337227C
; Patent No. 6420518
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: PI071P2.rev
; CURRENT APPLICATION NUMBER: US/09/337,227C
; CURRENT FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/052,888
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6420518
US-09-337-227C-27

Query Match          41.7%; Score 43; DB 4; Length 21;
Best Local Similarity 46.2%; Pred. No. 4.9;
Matches 6; Conservative 1; Mismatches 6; Indels 0; Gaps 0;
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QY      2 WVCNLFKNQWFCD 14
DB      3 WVCRAQPLQWLCE 15
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RESULT 7
US-09-723-251A-27
; Sequence 27, Application US/09723251A
; Patent No. 6608028
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2C1.2rev
; CURRENT APPLICATION NUMBER: US/09/723,251A
; CURRENT FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: US 09/337,227
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6608028
US-09-723-251A-27

Query Match 41.7%; Score 43; DB 4; Length 21;
Best Local Similarity 46.2%; Pred. No. 4.9;
Matches 6; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

Qy 2 WVCNLFKNQWPCD 14
Db 3 WVCNLFKNQWPCD 15

RESULT 8
US-08-828-488-8
; Sequence 8, Application US/08828488
; Patent No. 5925521
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL HUMAN SERINE
; TITLE OF INVENTION: CARBOXYPEPTIDASE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/828,488
; FILING DATE: Filed Herewith
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0241 US

; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 480 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 190283
US-08-828-488-8

Query Match 41.7%; Score 43; DB 2; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWPCD 14
Db 400 DWVCNLFKNQWPCD 413

RESULT 9
US-09-299-689A-8
; Sequence 8, Application US/09299689A
; Patent No. 6379913
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL HUMAN SERINE
; TITLE OF INVENTION: CARBOXYPEPTIDASE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/299,689A
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/828,488
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0241 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 480 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 190283
US-09-299-689A-8

Query Match 41.7%; Score 43; DB 4; Length 480;

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Best Local Similarity 42.9%; Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCFCD 14
Db 400 DMACNFMGDEWFVD 413

RESULT 10
US-09-702-705-336
; Sequence 336, Application US/09702705
; Patent No. 6504010
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C14
; CURRENT APPLICATION NUMBER: US/09/702,705
; CURRENT FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 1833
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-702-705-336

Query Match 41.7%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCFCD 14
Db 400 DMACNFMGDEWFVD 413

RESULT 11
US-09-736-457-336
; Sequence 336, Application US/09736457
; Patent No. 6509448
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; APPLICANT: Wang, Aijun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C15
; CURRENT APPLICATION NUMBER: US/09/736,457
; CURRENT FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 1864
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-736-457-336

Query Match 41.7%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCFCD 14
Db 400 DMACNFMGDEWFVD 413

RESULT 12
US-09-614-124B-336
; Sequence 336, Application US/09614124B
; Patent No. 6630574
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.478C9
; CURRENT APPLICATION NUMBER: US/09/614,124B
; CURRENT FILING DATE: 2001-07-11
; NUMBER OF SEQ ID NOS: 1668
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-614-124B-336

Query Match 41.7%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCFCD 14
Db 400 DMACNFMGDEWFVD 413

RESULT 13
US-09-671-325-336
; Sequence 336, Application US/09671325
; Patent No. 6667154
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C12
; CURRENT APPLICATION NUMBER: US/09/671,325
; CURRENT FILING DATE: 2000-09-26
; NUMBER OF SEQ ID NOS: 1825
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-671-325-336

Query Match 41.7%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:53:30 ; Search time 44.3 Seconds
(without alignments)
113.793 Million cell updates/sec

Title: US-09-825-517A-128

Perfect score: 102

Sequence: 1 DWVCNLFKNQWFCNVL 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

1: /cgn2_6/ptodata/1/pubaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/1/pubaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/1/pubaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/1/pubaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/1/pubaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/1/pubaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|--------------------|
| 1 | 102 | 100.0 | 16 | 11 | US-09-825-517A-128 |
| 2 | 100 | 98.0 | 16 | 11 | Sequence 128, App |
| 3 | 98 | 96.1 | 16 | 11 | Sequence 50, Appl |
| 4 | 97 | 95.1 | 16 | 11 | Sequence 119, App |
| 5 | 95 | 93.1 | 16 | 11 | Sequence 52, Appl |
| 6 | 95 | 93.1 | 16 | 11 | Sequence 42, App |
| 7 | 94 | 92.2 | 16 | 11 | Sequence 129, App |
| 8 | 94 | 92.2 | 16 | 11 | Sequence 61, Appl |
| 9 | 93 | 91.2 | 16 | 11 | Sequence 124, App |
| 10 | 93 | 91.2 | 16 | 11 | Sequence 58, Appl |
| 11 | 93 | 91.2 | 16 | 11 | Sequence 62, Appl |
| 12 | 93 | 91.2 | 16 | 11 | Sequence 71, Appl |
| 13 | 93 | 91.2 | 16 | 11 | Sequence 74, Appl |
| 14 | 93 | 91.2 | 16 | 11 | Sequence 81, Appl |
| 15 | 93 | 91.2 | 16 | 11 | Sequence 83, Appl |
| | | | 16 | 11 | Sequence 108, App |

| | | | | | |
|----|----|------|----|----|--------------------|
| 16 | 93 | 91.2 | 16 | 11 | US-09-825-517A-120 |
| 17 | 92 | 90.2 | 16 | 11 | Sequence 120, App |
| 18 | 92 | 90.2 | 16 | 11 | US-09-825-517A-38 |
| 19 | 91 | 89.2 | 16 | 11 | Sequence 38, Appl |
| 20 | 91 | 89.2 | 16 | 11 | US-09-825-517A-69 |
| 21 | 91 | 89.2 | 16 | 11 | Sequence 69, Appl |
| 22 | 91 | 89.2 | 16 | 11 | US-09-825-517A-41 |
| 23 | 91 | 89.2 | 16 | 11 | Sequence 41, Appl |
| 24 | 91 | 89.2 | 16 | 11 | US-09-825-517A-45 |
| 25 | 91 | 89.2 | 16 | 11 | Sequence 45, Appl |
| 26 | 91 | 89.2 | 16 | 11 | US-09-825-517A-46 |
| 27 | 91 | 89.2 | 16 | 11 | Sequence 46, Appl |
| 28 | 91 | 89.2 | 16 | 11 | US-09-825-517A-59 |
| 29 | 91 | 89.2 | 16 | 11 | Sequence 59, Appl |
| 30 | 91 | 89.2 | 16 | 11 | US-09-825-517A-77 |
| 31 | 91 | 89.2 | 16 | 11 | Sequence 77, Appl |
| 32 | 91 | 89.2 | 16 | 11 | US-09-825-517A-121 |
| 33 | 91 | 89.2 | 16 | 11 | Sequence 121, App |
| 34 | 91 | 89.2 | 16 | 11 | US-09-825-517A-47 |
| 35 | 91 | 89.2 | 16 | 11 | Sequence 47, Appl |
| 36 | 90 | 88.2 | 16 | 11 | US-09-825-517A-127 |
| 37 | 90 | 88.2 | 16 | 11 | Sequence 127, App |
| 38 | 90 | 88.2 | 16 | 11 | US-09-825-517A-131 |
| 39 | 90 | 88.2 | 16 | 11 | Sequence 131, App |
| 40 | 90 | 88.2 | 16 | 11 | US-09-825-517A-132 |
| 41 | 90 | 88.2 | 16 | 11 | Sequence 132, App |
| 42 | 90 | 88.2 | 16 | 11 | US-09-825-517A-145 |
| 43 | 90 | 88.2 | 16 | 11 | Sequence 145, App |
| 44 | 89 | 87.3 | 16 | 11 | US-09-825-517A-4 |
| 45 | 89 | 87.3 | 16 | 11 | Sequence 4, Appl |
| | 89 | 87.3 | 16 | 11 | US-09-825-517A-37 |
| | 89 | 87.3 | 16 | 11 | Sequence 37, Appl |
| | 89 | 87.3 | 16 | 11 | US-09-825-517A-48 |
| | 89 | 87.3 | 16 | 11 | Sequence 48, Appl |
| | 89 | 87.3 | 16 | 11 | US-09-825-517A-53 |
| | 89 | 87.3 | 16 | 11 | Sequence 53, Appl |
| | 89 | 87.3 | 16 | 11 | US-09-825-517A-73 |
| | 89 | 87.3 | 16 | 11 | Sequence 73, Appl |
| | 89 | 87.3 | 16 | 11 | US-09-825-517A-92 |
| | 89 | 87.3 | 16 | 11 | Sequence 92, Appl |
| | 89 | 87.3 | 16 | 11 | US-09-825-517A-136 |
| | 89 | 87.3 | 16 | 11 | Sequence 136, App |
| | 89 | 87.3 | 16 | 11 | US-09-825-517A-24 |
| | 89 | 87.3 | 16 | 11 | Sequence 24, Appl |
| | 88 | 86.3 | 16 | 11 | US-09-825-517A-39 |
| | 88 | 86.3 | 16 | 11 | Sequence 39, Appl |
| | 88 | 86.3 | 16 | 11 | US-09-825-517A-57 |
| | 88 | 86.3 | 16 | 11 | Sequence 57, Appl |
| | 88 | 86.3 | 16 | 11 | US-09-825-517A-79 |
| | 88 | 86.3 | 16 | 11 | Sequence 79, Appl |
| | 88 | 86.3 | 16 | 11 | US-09-825-517A-84 |
| | 88 | 86.3 | 16 | 11 | Sequence 84, Appl |
| | 88 | 86.3 | 16 | 11 | US-09-825-517A-134 |
| | 88 | 86.3 | 16 | 11 | Sequence 134, App |
| | 87 | 85.3 | 16 | 11 | US-09-825-517A-64 |
| | 87 | 85.3 | 16 | 11 | Sequence 64, Appl |
| | 87 | 85.3 | 16 | 11 | US-09-825-517A-89 |
| | 87 | 85.3 | 16 | 11 | Sequence 89, Appl |
| | 87 | 85.3 | 16 | 11 | US-09-825-517A-100 |
| | 87 | 85.3 | 16 | 11 | Sequence 100, App |

ALIGNMENTS

RESULT 1
US-09-825-517A-128
; Sequence 128, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 128
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-128

Query Match 100.0%; Score 102; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.7e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qv 1 DWVCNLFKNQWFCNVL 16
| | | | | | | | | | | | | | | |
Db 1 DWVCNLFKNQWFCNVL 16

RESULT 2
US-09-825-517A-50
; Sequence 50, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

```
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 50
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-50
```

```
Query Match          98.0%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 3.2e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 DWVCNLFKNQWFCNV 16
    |||||
DB 1 DWVCNLFKNQWFCNV 16
```

```
RESULT 3
US-09-825-517A-119
; Sequence 119, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 119
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-119
```

```
Query Match          96.1%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 6e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 DWVCNLFKNQWFCNV 15
    |||||
DB 1 DWVCNLFKNQWFCNV 15
```

```
RESULT 4
US-09-825-517A-52
; Sequence 52, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
```

```
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-52
```

```
Query Match          95.1%; Score 97; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 8.3e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 DWVCNLFKNQWFCNV 16
    |||||
DB 1 DWVCNLFKNQWFCNV 16
```

```
RESULT 5
US-09-825-517A-42
; Sequence 42, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 42
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-42
```

```
Query Match          93.1%; Score 95; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.6e-06;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 DWVCNLFKNQWFCNV 16
    |||||
DB 1 DWVCNLFKNQWFCNV 16
```

```
RESULT 6
US-09-825-517A-129
; Sequence 129, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 129
; LENGTH: 16
; TYPE: PRT
```



```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-129

Query Match          93.1%; Score 95; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.6e-06;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCNV 16
   |||||
Db 1 DWVCNLFKNQWFCDV 16

RESULT 7
US-09-825-517A-61
; Sequence 61, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: Fast-SEQ for Windows Version 4.0
; SEQ ID NO 61
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-61

Query Match          92.2%; Score 94; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 2.2e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCN 14
   |||||
Db 1 DWVCNLFKNQWFCN 14

RESULT 8
US-09-825-517A-124
; Sequence 124, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: Fast-SEQ for Windows Version 4.0
; SEQ ID NO 124
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-124

Query Match          92.2%; Score 94; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 2.2e-06;
```

```
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCNV 16
   |||||
Db 1 DWVCNLFKNQWFCDV 16

RESULT 9
US-09-825-517A-58
; Sequence 58, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: Fast-SEQ for Windows Version 4.0
; SEQ ID NO 58
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-58

Query Match          91.2%; Score 93; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 3e-06;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCNV 15
   |||||
Db 1 DWVCNLFKNQWFCDV 15

RESULT 10
US-09-825-517A-62
; Sequence 62, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: Fast-SEQ for Windows Version 4.0
; SEQ ID NO 62
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-62

Query Match          91.2%; Score 93; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 3e-06;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 DWVCNLFKNQWFCNV 15
   |||||
Db 1 DWVCNLFKNQWFCDV 15
```

RESULT 11
 US-09-825-517A-71
 ; Sequence 71, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 71
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-71

Query Match 91.2%; Score 93; DB 11; Length 16;
 Best Local Similarity 92.9%; Pred. No. 3e-06;
 Matches 13; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCN 14
 ||:|||||
 Db 1 DWICNLFKNQWFCN 14

RESULT 12
 US-09-825-517A-74
 ; Sequence 74, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 74
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-74

Query Match 91.2%; Score 93; DB 11; Length 16;
 Best Local Similarity 93.3%; Pred. No. 3e-06;
 Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCNV 15
 ||:|||||
 Db 1 DWVCNLFKNQWFCDV 15

RESULT 13
 US-09-825-517A-81
 ; Sequence 81, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 81
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-81

Query Match 91.2%; Score 93; DB 11; Length 16;
 Best Local Similarity 87.5%; Pred. No. 3e-06;
 Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCNV 16
 ||:|||||
 Db 1 DWVCNLFKNQWFCDAL 16

RESULT 14
 US-09-825-517A-83
 ; Sequence 83, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 83
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-83

Query Match 91.2%; Score 93; DB 11; Length 16;
 Best Local Similarity 87.5%; Pred. No. 3e-06;
 Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCNV 16
 ||:|||||
 Db 1 DWVCNLFKNQWFCDTL 16

RESULT 15
 US-09-825-517A-108
 ; Sequence 108, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03

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; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 108
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-108

Query Match      91.2%   Score 93;   DB 11;   Length 16;
Best Local Similarity 92.9%   Pred. No. 3e-06;
Matches 13; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      1 DWVCNLFKNQWFCN 14
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Db      1 DWICNLFKNQWFCN 14

Search completed: September 8, 2004, 14:25:09
Job time : 44.3 secs
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:51:54 ; Search time 12.2 Seconds
(without alignments)
67.706 Million cell updates/sec

Title: US-09-825-517A-128

Perfect score: 102
Sequence: 1 DWVCNLFKNQWFCNV 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA.*
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2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep.*
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4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|----------------------|
| 1 | 46 | 45.1 | 215 | 3 | US-09-131-028A-3 |
| 2 | 46 | 45.1 | 215 | 3 | US-09-131-028A-13 |
| 3 | 45 | 44.1 | 478 | 4 | US-09-137-223A-2 |
| 4 | 44 | 43.1 | 612 | 4 | US-09-252-991A-17516 |
| 5 | 43 | 42.2 | 326 | 2 | US-08-671-978A-7 |
| 6 | 42.5 | 41.7 | 113 | 4 | US-09-530-903C-4 |
| 7 | 42 | 41.2 | 582 | 3 | US-08-194-560-2 |
| 8 | 42 | 41.2 | 1422 | 4 | US-08-469-260A-82 |
| 9 | 42 | 41.2 | 1422 | 4 | US-08-488-446-82 |
| 10 | 42 | 41.2 | 1422 | 4 | US-08-467-344A-82 |
| 11 | 42 | 41.2 | 2474 | 4 | US-08-265-967C-3 |
| 12 | 42 | 41.2 | 2474 | 4 | US-08-305-790B-4 |
| 13 | 41 | 40.2 | 21 | 4 | US-09-337-227C-27 |
| 14 | 41 | 40.2 | 21 | 4 | US-09-723-251A-27 |
| 15 | 41 | 40.2 | 3033 | 1 | US-07-925-695-8 |
| 16 | 41 | 40.2 | 3033 | 1 | US-07-925-695-9 |
| 17 | 40.5 | 39.7 | 670 | 4 | US-09-587-811A-2 |
| 18 | 40 | 39.2 | 70 | 4 | US-09-328-352-7525 |
| 19 | 40 | 39.2 | 480 | 2 | US-08-828-488-8 |
| 20 | 40 | 39.2 | 480 | 4 | US-09-293-689A-8 |
| 21 | 40 | 39.2 | 480 | 4 | US-09-702-705-336 |
| 22 | 40 | 39.2 | 480 | 4 | US-09-736-457-336 |
| 23 | 40 | 39.2 | 480 | 4 | US-09-614-124B-336 |
| 24 | 40 | 39.2 | 480 | 4 | US-09-671-325-336 |
| 25 | 40 | 39.2 | 480 | 4 | US-09-589-184-336 |
| 26 | 40 | 39.2 | 3033 | 1 | US-07-925-695-5 |
| 27 | 39.5 | 38.7 | 1043 | 2 | US-08-724-354D-4 |

28 39.5 38.7 1043 3 US-09-270-984A-4 Sequence 4, Appli
29 39.5 38.7 1118 2 US-08-724-354D-2 Sequence 2, Appli
30 39.5 38.7 1118 3 US-09-270-984A-2 Sequence 2, Appli
31 39 38.2 80 4 US-09-673-395A-447 Sequence 447, App
32 39 38.2 131 2 US-08-834-655-9 Sequence 9, Appli
33 39 38.2 131 3 US-08-834-013A-10 Sequence 10, Appli
34 39 38.2 131 3 US-09-363-574-9 Sequence 9, Appli
35 39 38.2 131 4 US-09-363-526-9 Sequence 9, Appli
36 39 38.2 219 4 US-09-439-261-20 Sequence 20, Appli
37 39 38.2 219 4 US-09-227-613-19 Sequence 19, Appli
38 39 38.2 227 4 US-08-213-419B-13 Sequence 13, Appli
39 39 38.2 287 4 US-09-439-261-13 Sequence 13, Appli
40 39 38.2 287 4 US-09-227-613-14 Sequence 14, Appli
41 39 38.2 288 4 US-09-439-261-14 Sequence 14, Appli
42 39 38.2 288 4 US-09-439-261-16 Sequence 16, Appli
43 39 38.2 288 4 US-09-439-261-18 Sequence 18, Appli
44 39 38.2 288 4 US-09-227-613-15 Sequence 15, Appli
45 39 38.2 423 3 US-08-943-714-9 Sequence 9, Appli

ALIGNMENTS

RESULT 1
US-09-131-028A-3
; Sequence 3, Application US/09131028A
; Patent No. 6287866
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Mukerji, Pradip
; APPLICANT: Lemmel, Steven A.
; APPLICANT: Leonard, Amanda Eun-Yeong
; APPLICANT: Chaudhary, Sunita
; TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS
; FILE REFERENCE: 6004.US.P1
; CURRENT APPLICATION NUMBER: US/09/131,028A
; CURRENT FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: US 08/064,440
; PRIOR FILING DATE: 1993-05-21
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 215
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-131-028A-3

Query Match 45.1%; Score 46; DB 3; Length 215;
Best Local Similarity 50.0%; Pred. No. 20;
Matches 7; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 2 WVCNLFKNQWFCNV 15
| | | | | | | | | | | | | | | |
Db 12 WFCGLGRNEFCV 25

RESULT 2
US-09-131-028A-13
; Sequence 13, Application US/09131028A
; Patent No. 6287866
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Mukerji, Pradip
; APPLICANT: Lemmel, Steven A.
; APPLICANT: Leonard, Amanda Eun-Yeong
; APPLICANT: Chaudhary, Sunita
; TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS
; FILE REFERENCE: 6004.US.P1
; CURRENT APPLICATION NUMBER: US/09/131,028A
; CURRENT FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: US 08/064,440
; PRIOR FILING DATE: 1993-05-21
; NUMBER OF SEQ ID NOS: 22


```

APPLICANT: JOHN N. SIMONS
APPLICANT: TAMI J. PILOT-MATIAS
APPLICANT: GEORGE J. DAWSON
APPLICANT: GEORGE G. SCHLAUDER
APPLICANT: SURESH M. DESAI
APPLICANT: THOMAS P. LEARY
APPLICANT: ANTHONY SCOTT MUERHOFF
APPLICANT: JAMES C. ERKER
APPLICANT: SHERI L. BUIJK
APPLICANT: ISA K. MUSHAHWAR
TITLE OF INVENTION: NON-A, NON-B. NON-C, NON-D, NON-E HEPATITIS
TITLE OF INVENTION: REAGENTS AND METHODS FOR THEIR USE
NUMBER OF SEQUENCES: 716
CORRESPONDENCE ADDRESS:
ADDRESS: ABBOTT LABORATORIES D377/AP6D
STREET: 100 ABBOTT PARK ROAD
CITY: ABBOTT PARK
STATE: IL
COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/469,260A
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/424,550
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: FOREMSKI, PRISCILLA E.
REGISTRATION NUMBER: 33,207
REFERENCE/DOCKET NUMBER: 5527.PC.01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 708-937-6365
TELEFAX: 708-938-2623
INFORMATION FOR SEQ ID NO: 82:
SEQUENCE CHARACTERISTICS:
LENGTH: 1422 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-469-260A-82

Query Match 41.2%; Score 42; DB 4; Length 1422;
Best Local Similarity 28.6%; Pred.No. 5.3e+02;
Matches 8; Conservative 3; Mismatches 5; Indels 12; Gaps 1

Qy 1 DWV-----GNLFKNQWFCNVL 16
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Db 910 DWIRYAPTLSMRCTXHLFCXEWFKYL 937

RESULT 9
US-08-488-446-82
; Sequence 82, Application US/08488446
; Patent No. 6558898
; GENERAL INFORMATION:
; APPLICANT: JOHN N. SIMONS
; APPLICANT: TAMI J. PILOT-MATIAS
; APPLICANT: GEORGE J. DAWSON
; APPLICANT: GEORGE G. SCHLAUDER
; APPLICANT: SURESH M. DESAI
; APPLICANT: THOMAS P. LEARY
; APPLICANT: ANTHONY SCOTT MUERHOFF
; APPLICANT: JAMES C. ERKER
; APPLICANT: SHERI L. BUIJK
; APPLICANT: ISA K. MUSHAHWAR
; TITLE OF INVENTION: NON-A, NON-B. NON-C, NON-D, NON-E HEPATITIS

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;; TITLE OF INVENTION: REAGENTS AND METHODS FOR THEIR USE
;; NUMBER OF SEQUENCES: 716
;; CORRESPONDENCE ADDRESS:
;; ADDRESSER: ABBOTT LABORATORIES D377/AP6D
;; STREET: 100 ABBOTT PARK ROAD
;; CITY: ABBOTT PARK
;; STATE: IL
;; COUNTRY: USA
;; ZIP: 60064-3500
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: Patent In Release #1.0, Version #1.25
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/488,446
;; FILING DATE:
;; CLASSIFICATION:
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US/08/424,550
;; FILING DATE:
;; ATTORNEY/AGENT INFORMATION:
;; NAME: POREMSKI, PRISCILLA E.
;; REGISTRATION NUMBER: 33,207
;; REFERENCE/DOCKET NUMBER: 5527.PC.01
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 708-937-6365
;; TELEFAX: 708-938-2623
;; INFORMATION FOR SEQ ID NO: 82:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 1422 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
US-08-488-446-82

Query Match 41.2%; Score 42; DB 4; Length 1422;
Best Local Similarity 28.6%; Pred. No. 5.3e+02;
Matches 8; Conservative 3; Mismatches 5; Indels 12; Gaps 1;

QY 1 DWV-----CNLFKNQWFCNVL 16
|||:|:|:|:|:
Db 910 DWIRYAPSTLSMRCXTHLFCXEWFCCTL 937

RESULT 10
US-08-467-344A-82
; Sequence 82, Application US/08467344A
; Patent No. 6586568
; GENERAL INFORMATION:
; APPLICANT: JOHN N. SIMONS
; TAMI J. PILOT-MATIAS
; GEORGE J. DAWSON
; GEORGE G. SCHLAUDER
; SURESH M. DESAI
; THOMAS P. LEARY
; ANTHONY SCOTT MUERHOFF
; JAMES C. ERKER
; SHERI L. BUIJK
; ISA K. MUSHAWAR
; TITLE OF INVENTION: NON-A, NON-B, NON-C, NON-D, NON-E HEPATITIS
; REAGENTS AND METHODS FOR THEIR USE
; NUMBER OF SEQUENCES: 716
; CORRESPONDENCE ADDRESS:
; ADDRESSER: ABBOTT LABORATORIES D377/AP6D
; STREET: 100 ABBOTT PARK ROAD
; CITY: ABBOTT PARK
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: Patent In Release #1.0, Version #1.25
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/467,344A
;; FILING DATE: 07-Jun-1995
;; CLASSIFICATION: <Unknown>
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/424,550
;; FILING DATE: <Unknown>
;; ATTORNEY/AGENT INFORMATION:
;; NAME: POREMSKI, PRISCILLA E.
;; REGISTRATION NUMBER: 33,207
;; REFERENCE/DOCKET NUMBER: 5527.PC.01
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 708-937-6365
;; TELEFAX: 708-938-2623
;; INFORMATION FOR SEQ ID NO: 82:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 1422 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
;; SEQUENCE DESCRIPTION: SEQ ID NO: 82:
US-08-467-344A-82

Query Match 41.2%; Score 42; DB 4; Length 1422;
Best Local Similarity 28.6%; Pred. No. 5.3e+02;
Matches 8; Conservative 3; Mismatches 5; Indels 12; Gaps 1;

QY 1 DWV-----CNLFKNQWFCNVL 16
|||:|:|:|:|:
Db 910 DWIRYAPSTLSMRCXTHLFCXEWFCCTL 937

RESULT 11
US-08-265-967C-3
; Sequence 3, Application US/08265967C
; Patent No. 6476200
; GENERAL INFORMATION:
; APPLICANT: SABATINI, DAVID M.
; APPLICANT: ERDJUMENT-BROMAGE, HEDIVE
; APPLICANT: LUI, MARY
; APPLICANT: TEMPEST, PAUL
; APPLICANT: SNYDER, SOLOMON H.
; TITLE OF INVENTION: MAMMALIAN PROTEINS THAT BIND TO FKBP12
; TITLE OF INVENTION: IN A RAPAMYCIN-DEPENDENT FASHION
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BANNER & ALLEGRETTI, LTD
; STREET: 1001 G STREET, N.W., 11TH FLOOR
; CITY: WASHINGTON
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20001-4597
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/265,967C
; FILING DATE: 27-JUN-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: KAGAN, SARAH A.
; REGISTRATION NUMBER: 32,141
; REFERENCE/DOCKET NUMBER: 01107.46363
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-508-9100
; TELEFAX: 202-508-9299
; TELEX: 197430 BBMB UT


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; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2474 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Saccharomyces cerevisiae
; US-08-965-967C-3

Query Match          41.2%; Score 42; DB 4; Length 2474;
Best Local Similarity 50.0%; Pred. No. 9.4e+02;
Matches 5; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 5 NLFKNQWFCN 14
Db 1223 NILKNWYCS 1232

RESULT 12
US-08-305-790B-4
; Sequence 4, Application US/08305790B
; Patent No. 6492106
; GENERAL INFORMATION:
; APPLICANT: SABATINI, DAVID M.
; APPLICANT: ERDJUMENT-BROWAGE, HEDIYE
; APPLICANT: LUI, MARY
; APPLICANT: TEMPEST, PAUL
; APPLICANT: SNYDER, SOLOMON H.
; TITLE OF INVENTION: MAMMALIAN PROTEINS THAT BIND TO PKBP12
; TITLE OF INVENTION: IN A RAPAMYCIN-DEPENDENT FASHION
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BANNER & ALLEGRETTI, LTD
; STREET: 1001 G STREET, N.W., 11TH FLOOR
; CITY: WASHINGTON
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20001-4597
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/305,790B
; FILING DATE:
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/265,967
; FILING DATE: 27-JUN-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: KAGAN, SARAH A.
; REGISTRATION NUMBER: 32,141
; REFERENCE/DOCKET NUMBER: 01107.47225
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-508-9100
; TELEFAX: 202-508-9299
; TELEX: 197430 BBMB UT
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2474 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Saccharomyces cerevisiae
; US-08-305-790B-4

Query Match          41.2%; Score 42; DB 4; Length 2474;
Best Local Similarity 50.0%; Pred. No. 9.4e+02;
Matches 5; Conservative 3; Mismatches 2; Indels 0; Gaps 0;
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QY 5 NLFKNQWFCN 14
Db 1223 NILKNWYCS 1232

RESULT 13
US-09-337-227C-27
; Sequence 27, Application US/09337227C
; Patent No. 6420518
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2.rev
; CURRENT APPLICATION NUMBER: US/09/337,227C
; CURRENT FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/052,888
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6420518
; US-09-337-227C-27

Query Match          40.2%; Score 41; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 9.6;
Matches 6; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 2 WVCNLFKNQWFC 13
Db 3 WVCRAGPLQWLC 14

RESULT 14
US-09-723-251A-27
; Sequence 27, Application US/09723251A
; Patent No. 6608028
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2C1.2Rev
; CURRENT APPLICATION NUMBER: US/09/723,251A
; CURRENT FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: US 09/337,227
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6608028
; US-09-723-251A-27

Query Match          40.2%; Score 41; DB 4; Length 21;
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Best Local Similarity 50.0%; Pred. No. 9.6;
Matches 6; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
QY 2 WVCNLFKNQWFC 13
||| |
Db 3 WVCRAGPLQWLC 14

RESULT 15
US-07-925-695-8
; Sequence 8, Application US/07925695
; Patent No. 5428145
; GENERAL INFORMATION:
; APPLICANT: OKAMOTO, Hiroaki
; APPLICANT: NAKAMURA, Tetsuo
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
; TITLE OF INVENTION: DETECTION SYSTEMS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Beveridge, DeGrandi, Weillacher & Young
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: US
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/925,695
; FILING DATE: 19920807
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 287402/91
; FILING DATE: 09-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 360441/91
; FILING DATE: 05-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Weillacher, Robert G.
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/87-48009
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2811
; TELEFAX: (202) 659-1462
; TELEX: WUI 64470
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3033 amino acids
; TYPE: AMINO ACID
; STRANDEDNESS: unknown
; TOPOLOGY: linear
US-07-925-695-8

Query Match 40.2%; Score 41; DB 1; Length 3033;
Best Local Similarity 47.4%; Pred. No. 1.6e+03;
Matches 9; Conservative 3; Mismatches 3; Indels 4; Gaps 2;
QY 1 DWVCNL---FKNQWFCNVL 16
|||:|
Db 1986 DWVCILTDFKN-WLSSKL 2003

Search completed: September 8, 2004, 12:58:39
Job time : 12.2 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:53:30 ; Search time 44.3 Seconds
(without alignments)
113.793 Million cell updates/sec

Title: US-09-825-517A-127

Perfect score: 99
Sequence: 1 DWVCELLKNQWFCNVL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubpaa/US06_PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US05_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|--------------------|
| 1 | 99 | 100.0 | 16 | 11 | US-09-825-517A-127 |
| 2 | 90 | 90.9 | 16 | 11 | US-09-825-517A-59 |
| 3 | 90 | 90.9 | 16 | 11 | US-09-825-517A-128 |
| 4 | 88 | 88.9 | 16 | 11 | US-09-825-517A-50 |
| 5 | 88 | 88.9 | 16 | 11 | US-09-825-517A-126 |
| 6 | 88 | 88.9 | 16 | 11 | US-09-825-517A-147 |
| 7 | 87 | 87.9 | 16 | 11 | US-09-825-517A-80 |
| 8 | 87 | 87.9 | 16 | 11 | US-09-825-517A-116 |
| 9 | 86 | 86.9 | 16 | 11 | US-09-825-517A-100 |
| 10 | 86 | 86.9 | 16 | 11 | US-09-825-517A-119 |
| 11 | 85 | 85.9 | 16 | 11 | US-09-825-517A-52 |
| 12 | 85 | 85.9 | 16 | 11 | US-09-825-517A-75 |
| 13 | 85 | 85.9 | 16 | 11 | US-09-825-517A-150 |
| 14 | 84 | 84.8 | 16 | 11 | US-09-825-517A-65 |
| 15 | 84 | 84.8 | 16 | 11 | US-09-825-517A-148 |

| | | | | | | |
|----|----|------|----|----|--------------------|-------------------|
| 16 | 83 | 83.8 | 16 | 11 | US-09-825-517A-42 | Sequence 42, Appl |
| 17 | 83 | 83.8 | 16 | 11 | US-09-825-517A-129 | Sequence 129, App |
| 18 | 83 | 83.8 | 16 | 11 | US-09-825-517A-139 | Sequence 139, App |
| 19 | 82 | 82.8 | 16 | 11 | US-09-825-517A-61 | Sequence 61, Appl |
| 20 | 82 | 82.8 | 16 | 11 | US-09-825-517A-78 | Sequence 78, Appl |
| 21 | 82 | 82.8 | 16 | 11 | US-09-825-517A-86 | Sequence 86, Appl |
| 22 | 82 | 82.8 | 16 | 11 | US-09-825-517A-124 | Sequence 124, App |
| 23 | 82 | 82.8 | 16 | 11 | US-09-825-517A-137 | Sequence 137, App |
| 24 | 82 | 82.8 | 16 | 11 | US-09-825-517A-146 | Sequence 146, App |
| 25 | 82 | 82.8 | 16 | 11 | US-09-825-517A-149 | Sequence 149, App |
| 26 | 81 | 81.8 | 16 | 11 | US-09-825-517A-56 | Sequence 56, Appl |
| 27 | 81 | 81.8 | 16 | 11 | US-09-825-517A-58 | Sequence 58, Appl |
| 28 | 81 | 81.8 | 16 | 11 | US-09-825-517A-62 | Sequence 62, Appl |
| 29 | 81 | 81.8 | 16 | 11 | US-09-825-517A-71 | Sequence 71, Appl |
| 30 | 81 | 81.8 | 16 | 11 | US-09-825-517A-74 | Sequence 74, Appl |
| 31 | 81 | 81.8 | 16 | 11 | US-09-825-517A-81 | Sequence 81, Appl |
| 32 | 81 | 81.8 | 16 | 11 | US-09-825-517A-83 | Sequence 83, Appl |
| 33 | 81 | 81.8 | 16 | 11 | US-09-825-517A-108 | Sequence 108, App |
| 34 | 81 | 81.8 | 16 | 11 | US-09-825-517A-109 | Sequence 109, App |
| 35 | 81 | 81.8 | 16 | 11 | US-09-825-517A-120 | Sequence 120, App |
| 36 | 81 | 81.8 | 16 | 11 | US-09-825-517A-141 | Sequence 141, App |
| 37 | 80 | 80.8 | 16 | 11 | US-09-825-517A-38 | Sequence 38, Appl |
| 38 | 80 | 80.8 | 16 | 11 | US-09-825-517A-69 | Sequence 69, Appl |
| 39 | 79 | 79.8 | 16 | 11 | US-09-825-517A-41 | Sequence 41, Appl |
| 40 | 79 | 79.8 | 16 | 11 | US-09-825-517A-45 | Sequence 45, Appl |
| 41 | 79 | 79.8 | 16 | 11 | US-09-825-517A-46 | Sequence 46, Appl |
| 42 | 79 | 79.8 | 16 | 11 | US-09-825-517A-49 | Sequence 49, Appl |
| 43 | 79 | 79.8 | 16 | 11 | US-09-825-517A-77 | Sequence 77, Appl |
| 44 | 79 | 79.8 | 16 | 11 | US-09-825-517A-121 | Sequence 121, App |
| 45 | 79 | 79.8 | 16 | 11 | US-09-825-517A-151 | Sequence 151, App |

ALIGNMENTS

RESULT 1

US-09-825-517A-127
; Sequence 127, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 127
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-127

Query Match 100.0%; Score 99; DB 11; Length 16;
Best Local Similarity 100.0%; Pred.No. 3.4e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCELLKNQWFCNVL 16

DB 1 DWVCELLKNQWFCNVL 16

RESULT 2

US-09-825-517A-59
; Sequence 59, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

```
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 59
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-59

Query Match          90.9%; Score 90; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 6.2e-06;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCELLKNQWFCNVL 16
   ||||| ||||| |||||
Db 1 DWVCEYFKNQWFCNVL 16
   ||||| ||||| |||||

RESULT 3
US-09-825-517A-128
; Sequence 128, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 128
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-128

Query Match          90.9%; Score 90; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 6.2e-06;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCELLKNQWFCNVL 16
   ||||| ||||| |||||
Db 1 DWVCEYFKNQWFCNVL 16
   ||||| ||||| |||||

RESULT 4
US-09-825-517A-50
; Sequence 50, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
```

```
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 50
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-50

Query Match          88.9%; Score 88; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.2e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCELLKNQWFCNVL 16
   ||||| ||||| |||||
Db 1 DWVCNLFKNQWFCNVL 16
   ||||| ||||| |||||

RESULT 5
US-09-825-517A-126
; Sequence 126, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 126
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-126

Query Match          88.9%; Score 88; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.2e-05;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCELLKNQWFCNVL 16
   ||||| ||||| |||||
Db 1 DWVCEWLKNQWFCNVL 16
   ||||| ||||| |||||

RESULT 6
US-09-825-517A-147
; Sequence 147, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 147
; LENGTH: 16
; TYPE: PRT
```

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-147

Query Match      88.9%; Score 88; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.2e-05;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCELLKNQWFCNVL 16
Db 1 DWVCEFIKNQWFCNVL 16

RESULT 7
US-09-825-517A-80
; Sequence 80, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 80
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-80

Query Match      87.9%; Score 87; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.6e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCELLKNQWFCNVL 16
Db 1 DWVCEFIKNQWFCNVL 16

RESULT 8
US-09-825-517A-116
; Sequence 116, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 116
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-116

Query Match      87.9%; Score 87; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.6e-05;

Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCELLKNQWFCNVL 16
Db 1 DWVCEFIKNQWFCNVL 16

RESULT 9
US-09-825-517A-100
; Sequence 100, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 100
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-100

Query Match      86.9%; Score 86; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.3e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCELLKNQWFCNVL 16
Db 1 DWVCELFKPQWFCNVL 16

RESULT 10
US-09-825-517A-119
; Sequence 119, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 119
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-119

Query Match      86.9%; Score 86; DB 11; Length 16;
Best Local Similarity 86.7%; Pred. No. 2.3e-05;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCELLKNQWFCNV 15
Db 1 DWVCNLFKNQWFCNV 15
```

RESULT 11
 US-09-825-517A-52
 ; Sequence 52, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 52
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-52

Query Match 85.9%; Score 85; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 3.1e-05;
 Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCELLKNQWFCNVL 16
 ||||| :|||||:
 Db 1 DWVCNLFKNQWFCNVL 16

RESULT 12
 US-09-825-517A-75
 ; Sequence 75, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 75
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-75

Query Match 85.9%; Score 85; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 3.1e-05;
 Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCELLKNQWFCNVL 16
 ||||| :|||||:
 Db 1 DWVCEFFKQWFCNVL 16

RESULT 13
 US-09-825-517A-150
 ; Sequence 150, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; TITLE OF INVENTION: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 150
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-150

Query Match 85.9%; Score 85; DB 11; Length 16;
 Best Local Similarity 75.0%; Pred. No. 3.1e-05;
 Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCELLKNQWFCNVL 16
 ||||| :|||||:
 Db 1 DWVCEFFKQWFCNVL 16

RESULT 14
 US-09-825-517A-65
 ; Sequence 65, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 65
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-65

Query Match 84.8%; Score 84; DB 11; Length 16;
 Best Local Similarity 75.0%; Pred. No. 4.3e-05;
 Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCELLKNQWFCNVL 16
 ||||| :|||||:
 Db 1 DWVCELVRAQWFCNVL 16

RESULT 15
 US-09-825-517A-148
 ; Sequence 148, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03

; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 148
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-148

Query Match 84.8%; Score 84; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 4.3e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCELLKNQWFCNVL 16
| | | | | : | | | | |
Db 1 DWVCEWLKHQWFCNAL 16

Search completed: September 8, 2004, 14:25:09
Job time : 44.3 secs


```
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 215
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-131-028A-13

Query Match          45.5%; Score 45; DB 3; Length 215;
Best Local Similarity 50.0%; Pred. No. 14;
Matches 7; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 2 WVCELLKNQWFCNV 15
Db 12 WFCGLRGNEPCEV 25

RESULT 3
US-09-328-352-6740
; Sequence 6740, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; FILE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: GTC99-03PA
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 6740
; LENGTH: 222
; TYPE: PRT
; ORGANISM: Acinetobacter baumannii
US-09-328-352-6740

Query Match          43.4%; Score 43; DB 4; Length 222;
Best Local Similarity 54.5%; Pred. No. 29;
Matches 6; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 2 WVCELLKNQWFC 12
Db 27 WMCEVKKQGYF 37

RESULT 4
US-09-194-560-2
; Sequence 2, Application US/08194560
; Patent No. 625062
; GENERAL INFORMATION:
; APPLICANT: Campbell, Judith L.
; APPLICANT: Budd, Martin E.
; TITLE OF INVENTION: B-Type DNA Polymerases
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Flehr, Hobbach, Test, Albritton & Herbert
; STREET: 4 Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: California
; COUNTRY: United States
; ZIP: 94111-4187
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/194,560
; FILING DATE: 14-FEB-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Trecartin, Richard F.
; REGISTRATION NUMBER: 31,801
; REFERENCE/DOCKET NUMBER: A-59515/RFT/RMS
; TELECOMMUNICATION INFORMATION:
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; TELEPHONE: (415) 781-1989
; TELEFAX: (415) 398-3249
; TELEX: 910 277299
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 582 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-194-560-2

Query Match          43.4%; Score 43; DB 3; Length 582;
Best Local Similarity 33.3%; Pred. No. 79;
Matches 5; Conservative 7; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWCELLKNQWFCNV 15
Db 322 DWLCKMSRNECFTHL 336

RESULT 5
US-09-328-352-6959
; Sequence 6959, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; FILE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: GTC99-03PA
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 6959
; LENGTH: 272
; TYPE: PRT
; ORGANISM: Acinetobacter baumannii
US-09-328-352-6959

Query Match          42.4%; Score 42; DB 4; Length 272;
Best Local Similarity 50.0%; Pred. No. 51;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

Qy 2 WVCELLKNQWFC 13
Db 212 WAEVFLDNQWYC 223

RESULT 6
US-08-414-926A-5
; Sequence 5, Application US/08414926A
; Patent No. 5721354
; GENERAL INFORMATION:
; APPLICANT: Spaete, Richard
; APPLICANT: Cha, Tai-An
; TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooley Godward Castro Huddleson & Tatum
; STREET: 5 Palo Alto Square
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-2155
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/414,926A
; FILING DATE: March 31, 1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
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; NAME: Cserri, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: AVIR-011/OOUS
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-494-7622
; TELEFAX: 415-857-0663
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 399 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-414-926A-5

Query Match 42.4%; Score 42; DB 1; Length 399;
Best Local Similarity 60.0%; Pred. No. 76;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 2 WVCELLKNOW 11
Db 307 WVCEEPKHEW 316

RESULT 7
US-08-926-922-5
; Sequence 5, Application US/08926922
; Patent No. 5925751
; GENERAL INFORMATION:
; APPLICANT: Spaete, Richard
; APPLICANT: Cha, Tai-An
; TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Luann Cserri Attorney at Law
; STREET: 750 Arimo Avenue
; CITY: Oakland
; STATE: CA
; COUNTRY: USA
; ZIP: 94610
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: September 10, 1997
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Cserri, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: AVIR 11A
; TELEPHONE: 510-834-1448
; TELEFAX: 510-839-7810
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 399 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-926-922-5

Query Match 42.4%; Score 42; DB 2; Length 399;
Best Local Similarity 60.0%; Pred. No. 76;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 2 WVCELLKNOW 11
Db 307 WVCEEPKHEW 316

RESULT 8

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US-09-253-682-5
; Sequence 5, Application US/09253682
; Patent No. 6040170
; GENERAL INFORMATION:
; APPLICANT: Spaete, Richard
; APPLICANT: Cha, Tai-An
; TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Luann Cserri Attorney at Law
; STREET: 750 Arimo Avenue
; CITY: Oakland
; STATE: CA
; COUNTRY: USA
; ZIP: 94610
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: September 10, 1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/926,922
; FILING DATE: September 10, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Cserri, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: AVIR 11A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 510-834-1448
; TELEFAX: 510-839-7810
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 399 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-253-682-5

Query Match 42.4%; Score 42; DB 3; Length 399;
Best Local Similarity 60.0%; Pred. No. 76;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 2 WVCELLKNOW 11
Db 307 WVCEEPKHEW 316

RESULT 9
US-09-527-657-5
; Sequence 5, Application US/09527657
; Patent No. 6291236
; GENERAL INFORMATION:
; APPLICANT: Spaete, Richard
; APPLICANT: Cha, Tai-An
; TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Luann Cserri Attorney at Law
; STREET: 750 Arimo Avenue
; CITY: Oakland
; STATE: CA
; COUNTRY: USA
; ZIP: 94610
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:

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; APPLICATION NUMBER: US/09/527,657
; FILING DATE: 17-Mar-2000
; CLASSIFICATION: <unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/926,922
; FILING DATE: September 10, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Cserr, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: AVIR 11A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 510-834-1448
; TELEFAX: 510-839-7810
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 399 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-527-657-5

Query Match 42.4%; Score 42; DB 3; Length 399;
Best Local Similarity 60.0%; Pred. NO. 76;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 2 WVCELLKNOW 11
   ||||| :||
Db 307 WVCEPKHEW 316

RESULT 10
; Sequence 5, Application US/09892100
; Patent No. 6635477
; GENERAL INFORMATION:
; APPLICANT: Spaete, Richard
; Cha, Tai-An
; TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Luann Cserr Attorney at Law
; STREET: 750 Arimo Avenue
; CITY: Oakland
; STATE: CA
; COUNTRY: USA
; ZIP: 94610
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/892,100
; FILING DATE: 26-Jun-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/527,657
; FILING DATE: 17-Mar-2000
; APPLICATION NUMBER: US/08/926,922
; FILING DATE: September 10, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Cserr, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: AVIR 11A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 510-834-1448
; TELEFAX: 510-839-7810
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 399 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
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; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-892-100-5

Query Match 42.4%; Score 42; DB 4; Length 399;
Best Local Similarity 60.0%; Pred. NO. 76;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 2 WVCELLKNOW 11
   ||||| :||
Db 307 WVCEPKHEW 316

RESULT 11
; Sequence 22, Application US/07603133B
; Patent No. 5298244
; GENERAL INFORMATION:
; APPLICANT: Redmond, Mark J.
; APPLICANT: Ijaz, Mohammed K.
; APPLICANT: Parker, Michael D.
; TITLE OF INVENTION: ASSEMBLED VIRAL PARTICLES AND THEIR
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Morrison & Foerster
; STREET: 545 Middlefield Road, Suite 200
; CITY: Menlo Park
; STATE: CA
; COUNTRY: USA
; ZIP: 94025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/603,133B
; FILING DATE: 19901025
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Robins, Roberta L.
; REGISTRATION NUMBER: 33,208
; REFERENCE/DOCKET NUMBER: 9313-0004.00
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 327-7250
; TELEFAX: (415) 327-2951
; TELEX: 706141
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 326 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-07-603-133B-22

Query Match 41.4%; Score 41; DB 1; Length 326;
Best Local Similarity 41.7%; Pred. NO. 88;
Matches 5; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Qy 3 VCELLKNQWFCN 14
   :||| :||
Db 155 LADJILNEWLCN 166

RESULT 12
; Sequence 23, Application US/07603133B
; Patent No. 5298244
; GENERAL INFORMATION:
; APPLICANT: Redmond, Mark J.
; APPLICANT: Ijaz, Mohammed K.
; APPLICANT: Parker, Michael D.
```

```
;
; TITLE OF INVENTION: ASSEMBLED VIRAL PARTICLES AND THEIR
; TITLE OF INVENTION: USE IN A VACCINE TO ROTAVIRAL DISEASE
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Morrison & Foerster
; STREET: 545 Middlefield Road, Suite 200
; CITY: Menlo Park
; STATE: CA
; COUNTRY: USA
; ZIP: 94025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: 19901025
; APPLICATION NUMBER: US/07/603,133B
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Robins, Roberta L.
; REGISTRATION NUMBER: 33,208
; REFERENCE/DOCKET NUMBER: 9313-0004.00
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 327-7250
; TELEFAX: (415) 327-2951
; TELEX: 706141
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 326 amino acids
; TYPE: AMINO ACID
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; US-07-603-133B-23
;
; Query Match 41.4%; Score 41; DB 1; Length 326;
; Best Local Similarity 41.7%; Pred. No. 88;
; Matches 5; Conservative 4; Mismatches 3; Indels 0; Gaps 0;
;
; QY 3 VCELLKNQWFCN 14
; Db 155 LADLILNEWLCN 166
;
; RESULT 13
; US-07-603-133B-24
; Sequence 24, Application US/07603133B
; Patent No. 5298244
; GENERAL INFORMATION:
; APPLICANT: Redmond, Mark J.
; APPLICANT: Ijaz, Mohammed K.
; APPLICANT: Parker, Michael D.
; TITLE OF INVENTION: ASSEMBLED VIRAL PARTICLES AND THEIR
; TITLE OF INVENTION: USE IN A VACCINE TO ROTAVIRAL DISEASE
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Morrison & Foerster
; STREET: 545 Middlefield Road, Suite 200
; CITY: Menlo Park
; STATE: CA
; COUNTRY: USA
; ZIP: 94025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: 19901025
; APPLICATION NUMBER: US/07/603,133B
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Robins, Roberta L.
; REGISTRATION NUMBER: 33,208
; REFERENCE/DOCKET NUMBER: 9313-0004.00
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 327-7250
; TELEFAX: (415) 327-2951
; TELEX: 706141
; INFORMATION FOR SEQ ID NO: 24:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 326 amino acids
; TYPE: AMINO ACID
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; US-07-603-133B-24
;
; Query Match 41.4%; Score 41; DB 1; Length 326;
; Best Local Similarity 41.7%; Pred. No. 88;
; Matches 5; Conservative 4; Mismatches 3; Indels 0; Gaps 0;
;
; QY 3 VCELLKNQWFCN 14
; Db 155 LADLILNEWLCN 166
;
; RESULT 14
; US-07-603-133B-25
; Sequence 25, Application US/07603133B
; Patent No. 5298244
; GENERAL INFORMATION:
; APPLICANT: Redmond, Mark J.
; APPLICANT: Ijaz, Mohammed K.
; APPLICANT: Parker, Michael D.
; TITLE OF INVENTION: ASSEMBLED VIRAL PARTICLES AND THEIR
; TITLE OF INVENTION: USE IN A VACCINE TO ROTAVIRAL DISEASE
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Morrison & Foerster
; STREET: 545 Middlefield Road, Suite 200
; CITY: Menlo Park
; STATE: CA
; COUNTRY: USA
; ZIP: 94025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: 19901025
; APPLICATION NUMBER: US/07/603,133B
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Robins, Roberta L.
; REGISTRATION NUMBER: 33,208
; REFERENCE/DOCKET NUMBER: 9313-0004.00
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 327-7250
; TELEFAX: (415) 327-2951
; TELEX: 706141
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 326 amino acids
; TYPE: AMINO ACID
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; US-07-603-133B-25
;
; Query Match 41.4%; Score 41; DB 1; Length 326;
; Best Local Similarity 41.7%; Pred. No. 88;
; Matches 5; Conservative 4; Mismatches 3; Indels 0; Gaps 0;
```

```
;
; NAME: Robins, Roberta L.
; REGISTRATION NUMBER: 33,208
; REFERENCE/DOCKET NUMBER: 9313-0004.00
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 327-7250
; TELEFAX: (415) 327-2951
; TELEX: 706141
; INFORMATION FOR SEQ ID NO: 24:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 326 amino acids
; TYPE: AMINO ACID
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; US-07-603-133B-24
;
; Query Match 41.4%; Score 41; DB 1; Length 326;
; Best Local Similarity 41.7%; Pred. No. 88;
; Matches 5; Conservative 4; Mismatches 3; Indels 0; Gaps 0;
;
; QY 3 VCELLKNQWFCN 14
; Db 155 LADLILNEWLCN 166
;
; RESULT 14
; US-07-603-133B-25
; Sequence 25, Application US/07603133B
; Patent No. 5298244
; GENERAL INFORMATION:
; APPLICANT: Redmond, Mark J.
; APPLICANT: Ijaz, Mohammed K.
; APPLICANT: Parker, Michael D.
; TITLE OF INVENTION: ASSEMBLED VIRAL PARTICLES AND THEIR
; TITLE OF INVENTION: USE IN A VACCINE TO ROTAVIRAL DISEASE
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Morrison & Foerster
; STREET: 545 Middlefield Road, Suite 200
; CITY: Menlo Park
; STATE: CA
; COUNTRY: USA
; ZIP: 94025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: 19901025
; APPLICATION NUMBER: US/07/603,133B
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Robins, Roberta L.
; REGISTRATION NUMBER: 33,208
; REFERENCE/DOCKET NUMBER: 9313-0004.00
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 327-7250
; TELEFAX: (415) 327-2951
; TELEX: 706141
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 326 amino acids
; TYPE: AMINO ACID
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; US-07-603-133B-25
;
; Query Match 41.4%; Score 41; DB 1; Length 326;
; Best Local Similarity 41.7%; Pred. No. 88;
; Matches 5; Conservative 4; Mismatches 3; Indels 0; Gaps 0;
```

Qy 3 VCELLKNQWFCN 14
: : : : :
Db 155 LADLILNEWLCN 166

RESULT 15
US-07-603-133B-27
; Sequence 27, Application US/07603133B
; Patent No. 5298244
; GENERAL INFORMATION:
; APPLICANT: Redmond, Mark J.
; APPLICANT: Ijaz, Mohammed K.
; APPLICANT: Parker, Michael D.
; TITLE OF INVENTION: ASSEMBLED VIRAL PARTICLES AND THEIR
; TITLE OF INVENTION: USE IN A VACCINE TO ROTAVIRAL DISEASE
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Morrison & Foerster
; STREET: 545 Middlefield Road, Suite 200
; CITY: Menlo Park
; STATE: CA
; COUNTRY: USA
; ZIP: 94025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA: US/07603.133B
; APPLICATION NUMBER: US/07603.133B
; FILING DATE: 19901025
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Robins, Roberta L.
; REGISTRATION NUMBER: 33,208
; REFERENCE/DOCKET NUMBER: 9313-0004.00
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 327-7250
; TELEFAX: (415) 327-2951
; TELEX: 706141
; INFORMATION FOR SEQ ID NO: 27:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 326 amino acids
; TYPE: AMINO ACID
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; US-07-603-133B-27

Query Match 41.4%; Score 41; DB 1; Length 326;
Best Local Similarity 41.7%; Pred. No. 88;
Matches 5; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Qy 3 VCELLKNQWFCN 14
: : : : :
Db 155 LADLILNEWLCN 166

Search completed: September 8, 2004, 12:58:39
Job time : 13.2 secs

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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:53:30 ; Search time 44.3 Seconds
(without alignments)
113.793 Million cell updates/sec

Title: US-09-825-517A-126
Perfect score: 111
Sequence: 1 DWVCEWLKNQWNCNVL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
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1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubpaa/US09C_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|--------------------|
| 1 | 111 | 100.0 | 16 | 11 | US-09-825-517A-126 |
| 2 | 92 | 82.9 | 16 | 11 | US-09-825-517A-148 |
| 3 | 90 | 81.1 | 16 | 11 | US-09-825-517A-103 |
| 4 | 90 | 81.1 | 16 | 11 | US-09-825-517A-146 |
| 5 | 89 | 80.2 | 16 | 11 | US-09-825-517A-125 |
| 6 | 89 | 80.2 | 16 | 11 | US-09-825-517A-141 |
| 7 | 89 | 80.2 | 16 | 11 | US-09-825-517A-142 |
| 8 | 88 | 79.3 | 16 | 11 | US-09-825-517A-59 |
| 9 | 88 | 79.3 | 16 | 11 | US-09-825-517A-112 |
| 10 | 88 | 79.3 | 16 | 11 | US-09-825-517A-122 |
| 11 | 88 | 79.3 | 16 | 11 | US-09-825-517A-127 |
| 12 | 88 | 79.3 | 16 | 11 | US-09-825-517A-140 |
| 13 | 88 | 79.3 | 16 | 11 | US-09-825-517A-144 |
| 14 | 87 | 78.4 | 16 | 11 | US-09-825-517A-80 |
| 15 | 86 | 77.5 | 16 | 11 | US-09-825-517A-54 |

| | | | | | | |
|----|----|------|----|----|--------------------|-------------------|
| 16 | 86 | 77.5 | 16 | 11 | US-09-825-517A-130 | Sequence 130, App |
| 17 | 86 | 77.5 | 16 | 11 | US-09-825-517A-138 | Sequence 138, App |
| 18 | 86 | 77.5 | 16 | 11 | US-09-825-517A-143 | Sequence 143, App |
| 19 | 84 | 75.7 | 16 | 11 | US-09-825-517A-117 | Sequence 117, App |
| 20 | 84 | 75.7 | 16 | 11 | US-09-825-517A-139 | Sequence 139, App |
| 21 | 84 | 75.7 | 16 | 11 | US-09-825-517A-147 | Sequence 147, App |
| 22 | 83 | 74.8 | 16 | 11 | US-09-825-517A-68 | Sequence 68, App |
| 23 | 82 | 73.9 | 16 | 11 | US-09-825-517A-115 | Sequence 115, App |
| 24 | 82 | 73.9 | 16 | 11 | US-09-825-517A-137 | Sequence 137, App |
| 25 | 81 | 73.0 | 16 | 11 | US-09-825-517A-75 | Sequence 75, App |
| 26 | 81 | 73.0 | 16 | 11 | US-09-825-517A-116 | Sequence 116, App |
| 27 | 81 | 73.0 | 16 | 11 | US-09-825-517A-150 | Sequence 150, App |
| 28 | 79 | 71.2 | 16 | 11 | US-09-825-517A-49 | Sequence 49, App |
| 29 | 79 | 71.2 | 16 | 11 | US-09-825-517A-101 | Sequence 101, App |
| 30 | 79 | 71.2 | 16 | 11 | US-09-825-517A-109 | Sequence 109, App |
| 31 | 79 | 71.2 | 16 | 11 | US-09-825-517A-128 | Sequence 128, App |
| 32 | 79 | 71.2 | 16 | 11 | US-09-825-517A-151 | Sequence 151, App |
| 33 | 78 | 70.3 | 16 | 11 | US-09-825-517A-76 | Sequence 76, App |
| 34 | 78 | 70.3 | 16 | 11 | US-09-825-517A-78 | Sequence 78, App |
| 35 | 78 | 70.3 | 16 | 11 | US-09-825-517A-86 | Sequence 86, App |
| 36 | 78 | 70.3 | 16 | 11 | US-09-825-517A-105 | Sequence 105, App |
| 37 | 77 | 69.4 | 16 | 11 | US-09-825-517A-50 | Sequence 50, App |
| 38 | 77 | 69.4 | 16 | 11 | US-09-825-517A-65 | Sequence 65, App |
| 39 | 76 | 68.5 | 16 | 11 | US-09-825-517A-90 | Sequence 90, App |
| 40 | 76 | 68.5 | 16 | 11 | US-09-825-517A-95 | Sequence 95, App |
| 41 | 76 | 68.5 | 16 | 11 | US-09-825-517A-104 | Sequence 104, App |
| 42 | 75 | 67.6 | 16 | 11 | US-09-825-517A-67 | Sequence 67, App |
| 43 | 75 | 67.6 | 16 | 11 | US-09-825-517A-82 | Sequence 82, App |
| 44 | 75 | 67.6 | 16 | 11 | US-09-825-517A-100 | Sequence 100, App |
| 45 | 75 | 67.6 | 16 | 11 | US-09-825-517A-118 | Sequence 118, App |

ALIGNMENTS

RESULT 1
US-09-825-517A-126
; Sequence 126, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Ladner, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DXX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 126
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-126

Query Match 100.0%; Score 111; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 6.7e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEWLKNQWNCNVL 16
|||||
Db 1 DWVCEWLKNQWNCNVL 16

RESULT 2
US-09-825-517A-148
; Sequence 148, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

```
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 148
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-148

Query Match      82.9%; Score 92; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00013;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWLKNQWMCNVL 16
Db 1 DWVCEWLKHQWFCNAL 16

RESULT 3
US-09-825-517A-103
; Sequence 103, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 103
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-103

Query Match      81.1%; Score 90; DB 11; Length 16;
Best Local Similarity 85.7%; Pred. No. 0.00022;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWLKNQWMCN 14
Db 1 NWVCEWLKPQWMCN 14

RESULT 4
US-09-825-517A-146
; Sequence 146, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
```

```
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 146
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-146

Query Match      81.1%; Score 90; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00022;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWLKNQWMCNVL 16
Db 1 DWVCEWLKQWFCNSL 16

RESULT 5
US-09-825-517A-125
; Sequence 125, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 125
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-125

Query Match      80.2%; Score 89; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 0.00029;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEWLKNQWMCNVL 16
Db 1 DWVCEWLKQWACNVL 16

RESULT 6
US-09-825-517A-141
; Sequence 141, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 141
; LENGTH: 16
; TYPE: PRT
```


; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-141

Query Match 80.2%; Score 89; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00029;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEWLKNQWNCNVL 16
| | | | | | | | | | | | | | | |
Db 1 DWVCEWLKNQWFCNAL 16

RESULT 7
US-09-825-517A-142
; Sequence 142, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 142
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-142

Query Match 80.2%; Score 89; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 0.00029;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEWLKNQWNCNVL 16
| | | | | | | | | | | | | | | |
Db 1 DWVCEWLKNQWACNVL 16

RESULT 8
US-09-825-517A-59
; Sequence 59, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 59
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-59

Query Match 79.3%; Score 88; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00039;

Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
Qy 1 DWVCEWLKNQWNCNVL 16
| | | | | | | | | | | | | | | |
Db 1 DWVCEVFNQWFCNVL 16

RESULT 9
US-09-825-517A-112
; Sequence 112, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 112
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-112

Query Match 79.3%; Score 88; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00039;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEWLKNQWNCNVL 16
| | | | | | | | | | | | | | | |
Db 1 DWVCEWLKNQWACNVL 16

RESULT 10
US-09-825-517A-122
; Sequence 122, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 122
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-122

Query Match 79.3%; Score 88; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00039;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEWLKNQWNCNVL 16
| | | | | | | | | | | | | | | |
Db 1 DWVCEWLKNQWACNVL 16

```

RESULT 11
US-09-825-517A-127
; Sequence 127, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 127
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-127

Query Match          79.3%; Score 88; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 0.00039;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWLKNQWFCNVNL 16
   |||||:||||:||||
Db 1 DWVCEWLKNQWFCNVNL 16

RESULT 12
US-09-825-517A-140
; Sequence 140, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 140
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-140

Query Match          79.3%; Score 88; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00039;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEWLKNQWFCNVNL 16
   |||||:||||:||||
Db 1 DWVCEWLKNQWFCNVNL 16

RESULT 13
US-09-825-517A-144
; Sequence 144, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C

```

```

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 144
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-144

Query Match          79.3%; Score 88; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00039;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEWLKNQWFCNVNL 16
   |||||:||||:||||
Db 1 DWVCEWLKNQWFCNVNL 16

RESULT 14
US-09-825-517A-80
; Sequence 80, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 80
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-80

Query Match          78.4%; Score 87; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00051;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWLKNQWFCNVNL 16
   |||||:||||:||||
Db 1 DWVCEWLKNQWFCNVNL 16

RESULT 15
US-09-825-517A-54
; Sequence 54, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03

```

```
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 54
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-54
```

```
Query Match      77.5%; Score 86; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00067;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
Qy      1 DWVCEWLKNQWNCNVL 16
        ||||| ||| |||
Db      1 DWVCEWLKNQWACNML 16
```

```
Search completed: September 8, 2004, 14:25:09
Job time : 45.3 secs
```


GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:51:54 ; Search time 12.2 Seconds
(without alignments)
67.706 Million cell updates/sec

Title: US-09-825-517A-126

Perfect score: 111

Sequence: 1 DWVCEWLKNQWNCNVL 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA.*
1: /cgn2_6/ptodata/2/iaa/5A-COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B-COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A-COMB.pep.*
4: /cgn2_6/ptodata/2/iaa/6B-COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/6CTUS-COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|----------------------|
| 1 | 55 | 49.5 | 421 | 2 | US-08-807-263-4 |
| 2 | 55 | 49.5 | 532 | 2 | US-08-899-324-33 |
| 3 | 55 | 49.5 | 532 | 3 | US-08-329-892B-33 |
| 4 | 50 | 45.0 | 557 | 1 | US-08-309-341-2 |
| 5 | 50 | 45.0 | 557 | 1 | US-08-309-341-4 |
| 6 | 50 | 45.0 | 557 | 1 | US-08-608-267-2 |
| 7 | 50 | 45.0 | 557 | 1 | US-08-608-267-4 |
| 8 | 50 | 45.0 | 557 | 1 | US-08-608-452-2 |
| 9 | 50 | 45.0 | 557 | 1 | US-08-608-452-4 |
| 10 | 50 | 45.0 | 557 | 1 | US-08-608-224-2 |
| 11 | 50 | 45.0 | 557 | 1 | US-08-608-224-4 |
| 12 | 50 | 45.0 | 557 | 2 | US-08-967-149-2 |
| 13 | 50 | 45.0 | 557 | 2 | US-08-967-149-4 |
| 14 | 48 | 43.2 | 423 | 3 | US-08-943-714-9 |
| 15 | 48 | 43.2 | 1844 | 4 | US-08-851-567B-53 |
| 16 | 48 | 43.2 | 2504 | 4 | US-08-851-567B-12 |
| 17 | 48 | 43.2 | 2504 | 4 | US-08-817-514A-8 |
| 18 | 47 | 42.3 | 71 | 4 | US-09-621-976-5666 |
| 19 | 46 | 41.4 | 491 | 1 | US-09-640-305-4 |
| 20 | 46 | 41.4 | 491 | 1 | US-08-360-673-4 |
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| 22 | 45 | 40.5 | 126 | 4 | US-09-764-304-4 |
| 23 | 45 | 40.5 | 141 | 4 | US-08-225-322B-2 |
| 24 | 45 | 40.5 | 141 | 4 | US-09-764-304-2 |
| 25 | 45 | 40.5 | 358 | 4 | US-09-489-039A-8715 |
| 26 | 45 | 40.5 | 479 | 4 | US-09-252-991A-32884 |
| 27 | 45 | 40.5 | 536 | 4 | US-09-292-225-21 |

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28 45 40.5 555 4 US-09-292-225-15 Sequence 15, Appl
29 45 40.5 555 4 US-09-292-225-18 Sequence 18, Appl
30 44 39.6 138 3 US-08-930-894-5 Sequence 5, Appl
31 44 39.6 139 3 US-08-930-894-6 Sequence 6, Appl
32 44 39.6 139 3 US-08-930-894-7 Sequence 7, Appl
33 44 39.6 140 3 US-08-930-894-7 Sequence 4, Appl
34 44 39.6 485 3 US-08-930-894-2 Sequence 2, Appl
35 43.5 39.2 106 4 US-09-252-991A-21103 Sequence 21103, A
36 43.5 39.2 417 4 US-09-252-991A-28413 Sequence 28413, A
37 43 38.7 24 1 US-08-484-631-86 Sequence 86, Appl
38 43 38.7 24 2 US-08-484-631-86 Sequence 86, Appl
39 43 38.7 24 2 US-08-827-570-86 Sequence 86, Appl
40 43 38.7 65 4 US-09-540-236-2627 Sequence 2627, Ap
41 43 38.7 73 4 US-09-489-039A-9120 Sequence 9120, Ap
42 43 38.7 169 3 US-08-928-941D-35 Sequence 35, Appl
43 43 38.7 169 4 US-09-280-590A-45 Sequence 45, Appl
44 43 38.7 169 4 US-09-892-398-45 Sequence 45, Appl
45 43 38.7 170 4 US-09-252-991A-21369 Sequence 21369, A

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ALIGNMENTS

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RESULT 1
US-08-807-263-4
; Sequence 4, Application US/08807263C
; Patent No. 5985627
; GENERAL INFORMATION:
; APPLICANT: Mortensen, Uffe
; APPLICANT: Olesen, Kjeld
; APPLICANT: Stenicke, Henning
; APPLICANT: Sorensen, Steen B.
; APPLICANT: Breddam, Klaus
; TITLE OF INVENTION: MODIFIED CARBOXYPEPTIDASE
; FILE REFERENCE: 8648.71us01-no4
; CURRENT APPLICATION NUMBER: US/08/807,263C
; CURRENT FILING DATE: 1997-02-28
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 421
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-08-807-263-4

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Query Match      49.5%; Score 55; DB 2; Length 421;
Best Local Similarity 50.0%; Pred. No. 4.5;
Matches 8; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

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Qy 1 DWVCEWLKNQWNCNVL 16
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Db 338 DFICNLGNKAWTDVL 353

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RESULT 2
US-08-899-324-33
; Sequence 33, Application US/08899324
; Patent No. 5945329
; GENERAL INFORMATION:
; APPLICANT: Breddam, Klaus
; APPLICANT: Keiland-Brandt, Morten
; APPLICANT: Mortensen, Uffe
; APPLICANT: Olesen, Kjeld
; APPLICANT: Stenicke, Henning
; APPLICANT: Wagner, Fred
; TITLE OF INVENTION: CUSTOMIZED PROTEASES
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchants, Gould, Smith, Edell, Welter & Schmidt
; STREET: 3100 No. 5945329west Center, 90 S. 7th Street
; CITY: Minneapolis
; STATE: MN
; COUNTRY: U.S.A.

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; ORIGINAL SOURCE:
; ORGANISM: Aspergillus Niger
US-08-309-341-2

Query Match      45.0%; Score 50; DB 1; Length 557;
Best Local Similarity 43.8%; Pred. No. 29;
Matches 7; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCEWLKNQWNCNVL 16
Db 472 DFICNLGNKAWTEAL 487

RESULT 5
US-08-309-341-4
; Sequence 4, Application US/08309341
; Patent No. 5594119
; GENERAL INFORMATION:
; APPLICANT: Yaver, Debbie Sue
; APPLICANT: Thompson, Sheryl Ann
; TITLE OF INVENTION: GENE ENCODING CARBOXYPEPTIDASE OF ASPERGILLUS NIGER
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 5594119o No. 5594119disk of No. 5594119th America, Inc.
; STREET: 405 Lexington Avenue, Suite 6400
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10174-6401
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/309,341
; FILING DATE: 16-SEP-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Lowney, Karen A.
; REGISTRATION NUMBER: 31,274
; REFERENCE/DOCKET NUMBER: 4247.000-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212 867 0123
; TELEFAX: 212 867 0298
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 557 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Aspergillus Niger
US-08-309-341-4

Query Match      45.0%; Score 50; DB 1; Length 557;
Best Local Similarity 43.8%; Pred. No. 29;
Matches 7; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCEWLKNQWNCNVL 16
Db 472 DFICNLGNKAWTEAL 487

RESULT 6
US-08-608-267-2
; Sequence 2, Application US/08608267
; Patent No. 5688663
; GENERAL INFORMATION:
; APPLICANT: Yaver, Debbie Sue
; APPLICANT: Thompson, Sheryl Ann
; TITLE OF INVENTION: GENE ENCODING CARBOXYPEPTIDASE OF ASPERGILLUS NIGER
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; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 5688663o No. 5688663disk of No. 5688663th America, Inc.
; STREET: 405 Lexington Avenue, Suite 6400
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10174-6401
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
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; APPLICATION NUMBER: US/08/608,267
; FILING DATE: 28-FEB-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/309,341
; FILING DATE: 20-SEP-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Lowney, Karen A.
; REGISTRATION NUMBER: 31,274
; REFERENCE/DOCKET NUMBER: 4247.000-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212 867 0123
; TELEFAX: 212 867 0298
; INFORMATION FOR SEQ ID NO: 2:
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; LENGTH: 557 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Aspergillus Niger
US-08-608-267-2

Query Match      45.0%; Score 50; DB 1; Length 557;
Best Local Similarity 43.8%; Pred. No. 29;
Matches 7; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCEWLKNQWNCNVL 16
Db 472 DFICNLGNKAWTEAL 487

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US-08-608-267-4
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; Patent No. 5688663
; GENERAL INFORMATION:
; APPLICANT: Yaver, Debbie Sue
; APPLICANT: Thompson, Sheryl Ann
; TITLE OF INVENTION: GENE ENCODING CARBOXYPEPTIDASE OF ASPERGILLUS NIGER
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 5688663o No. 5688663disk of No. 5688663th America, Inc.
; STREET: 405 Lexington Avenue, Suite 6400
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10174-6401
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
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; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/608,267
; FILING DATE: 28-FEB-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
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; APPLICATION NUMBER: US 08/309,341
; FILING DATE: 20-SEP-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Lowney, Karen A.
; REGISTRATION NUMBER: 31,274
; REFERENCE/DOCKET NUMBER: 4247.000-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212 867 0123
; TELEFAX: 212 867 0298
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 557 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
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; ORGANISM: Aspergillus Niger
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US-08-608-267-4

Query Match 45.0%; Score 50; DB 1; Length 557;
Best Local Similarity 43.8%; Pred. No. 29;
Matches 7; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

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Db 472 DFICNLGNKAWTEAL 487

RESULT 8
US-08-608-452-2
; Sequence 2, Application US/08608452
; Patent No. 5693510
; GENERAL INFORMATION:
; APPLICANT: Yaver, Debbie Sue
; APPLICANT: Thompson, Sheryl Ann
; TITLE OF INVENTION: GENE ENCODING CARBOXYPEPTIDASE OF ASPERGILLUS NIGER
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 56935100 No. 5693510disk of No. 5693510th America, Inc.
; STREET: 405 Lexington Avenue, Suite 6400
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10174-6401
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
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; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
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; APPLICATION NUMBER: US/08/608,452
; FILING DATE: 28-FEB-1996
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/309,341
; FILING DATE: 20-SEP-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Lowney, Karen A.
; REGISTRATION NUMBER: 31,274
; REFERENCE/DOCKET NUMBER: 4247.000-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212 867 0123
; TELEFAX: 212 867 0298
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
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; TOPOLOGY: linear
; MOLECULE TYPE: protein
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; ORGANISM: Aspergillus Niger
US-08-608-452-4

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Best Local Similarity 43.8%; Pred. No. 29;
Matches 7; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCEWLKNQWNCNVL 16
Db 472 DFICNLGNKAWTEAL 487

RESULT 9
US-08-608-452-4
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; Patent No. 5693510
; GENERAL INFORMATION:
; APPLICANT: Yaver, Debbie Sue
; APPLICANT: Thompson, Sheryl Ann
; TITLE OF INVENTION: GENE ENCODING CARBOXYPEPTIDASE OF ASPERGILLUS NIGER
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 56935100 No. 5693510disk of No. 5693510th America, Inc.
; STREET: 405 Lexington Avenue, Suite 6400
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10174-6401
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
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; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
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; APPLICATION NUMBER: US/08/608,452
; FILING DATE: 28-FEB-1996
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/309,341
; FILING DATE: 20-SEP-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Lowney, Karen A.
; REGISTRATION NUMBER: 31,274
; REFERENCE/DOCKET NUMBER: 4247.000-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212 867 0123
; TELEFAX: 212 867 0298
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 557 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Aspergillus Niger
US-08-608-452-4

Query Match 45.0%; Score 50; DB 1; Length 557;
Best Local Similarity 43.8%; Pred. No. 29;
Matches 7; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCEWLKNQWNCNVL 16
Db 472 DFICNLGNKAWTEAL 487

RESULT 10
US-08-608-224-2
; Sequence 2, Application US/08608224
; Patent No. 5705376
; GENERAL INFORMATION:
; APPLICANT: Yaver, Debbie Sue
; APPLICANT: Thompson, Sheryl Ann
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;
; TITLE OF INVENTION: GENE ENCODING CARBOXYPEPTIDASE OF ASPERGILLUS NIGER
;
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 57053760 No. 5705376disk of No. 5705376th America, Inc.
; STREET: 405 Lexington Avenue, Suite 6400
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10174-6401
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
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; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
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; APPLICATION NUMBER: US/08/608,224
; FILING DATE: 28-FEB-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/309,341
; FILING DATE: 20-SEP-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Lowney, Karen A.
; REGISTRATION NUMBER: 31,274
; REFERENCE/DOCKET NUMBER: 4247.000-US
; TELEPHONE: 212 867 0123
; TELEFAX: 212 867 0298
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
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; TYPE: amino acid
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; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Aspergillus Niger
;
; US-08-608-224-2
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; Query Match 45.0%; Score 50; DB 1; Length 557;
; Best Local Similarity 43.8%; Pred. No. 29;
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; QY 1 DWVCEWLKNQWNCNVL 16
; Db |::|||::|
; 472 DFICNLGNKAWTEAL 487
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; RESULT 11
; US-08-608-224-4
; Sequence 4, Application US/08608224
; Patent No. 5705376
; GENERAL INFORMATION:
; APPLICANT: Yaver, Debbie Sue
; APPLICANT: Thompson, Sheryl Ann
; TITLE OF INVENTION: GENE ENCODING CARBOXYPEPTIDASE OF ASPERGILLUS NIGER
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 57053760 No. 5705376disk of No. 5705376th America, Inc.
; STREET: 405 Lexington Avenue, Suite 6400
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10174-6401
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
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; FILING DATE: 28-FEB-1996
; CLASSIFICATION: 435
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; US-08-608-224-2
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; Best Local Similarity 43.8%; Pred. No. 29;
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; Db |::|||::|
; 472 DFICNLGNKAWTEAL 487
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; RESULT 12
; US-08-967-149-2
; Sequence 2, Application US/08967149
; Patent No. 5939305
; GENERAL INFORMATION:
; APPLICANT: Yaver, Debbie Sue
; APPLICANT: Thompson, Sheryl Ann
; TITLE OF INVENTION: GENE ENCODING CARBOXYPEPTIDASE OF ASPERGILLUS NIGER
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 59393050 No. 5939305disk of No. 5939305th America, Inc.
; STREET: 405 Lexington Avenue, Suite 6400
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10174-6401
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/967,149
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/608,452
; FILING DATE: 28-FEB-1996
; APPLICATION NUMBER: US 08/309,341
; FILING DATE: 20-SEP-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Lowney, Karen A.
; REGISTRATION NUMBER: 31,274
; REFERENCE/DOCKET NUMBER: 4247.000-US
; TELEPHONE: 212 867 0123
; TELEFAX: 212 867 0298
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 557 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/309,341
; FILING DATE: 20-SEP-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Lowney, Karen A.
; REGISTRATION NUMBER: 31,274
; REFERENCE/DOCKET NUMBER: 4247.000-US
; TELEPHONE: 212 867 0123
; TELEFAX: 212 867 0298
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 557 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Aspergillus Niger
;
; US-08-608-224-4
;
; Query Match 45.0%; Score 50; DB 1; Length 557;
; Best Local Similarity 43.8%; Pred. No. 29;
; Matches 7; Conservative 3; Mismatches 6; Indels 0; Gaps 0;
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; QY 1 DWVCEWLKNQWNCNVL 16
; Db |::|||::|
; 472 DFICNLGNKAWTEAL 487
;
; RESULT 12
; US-08-967-149-2
; Sequence 2, Application US/08967149
; Patent No. 5939305
; GENERAL INFORMATION:
; APPLICANT: Yaver, Debbie Sue
; APPLICANT: Thompson, Sheryl Ann
; TITLE OF INVENTION: GENE ENCODING CARBOXYPEPTIDASE OF ASPERGILLUS NIGER
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 59393050 No. 5939305disk of No. 5939305th America, Inc.
; STREET: 405 Lexington Avenue, Suite 6400
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10174-6401
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
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; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/608,452
; FILING DATE: 28-FEB-1996
; APPLICATION NUMBER: US 08/309,341
; FILING DATE: 20-SEP-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Lowney, Karen A.
; REGISTRATION NUMBER: 31,274
; REFERENCE/DOCKET NUMBER: 4247.000-US
; TELEPHONE: 212 867 0123
; TELEFAX: 212 867 0298
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 557 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
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; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Aspergillus Niger
US-08-967-149-2
    Query Match 45.0%; Score 50; DB 2; Length 557;
    Best Local Similarity 43.8%; Pred. No. 29;
    Matches 7; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCEWLKNQWNCVL 16
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Db 472 DFICNWLGNKAWTEAL 487

RESULT 13
US-08-967-149-4
; Sequence 4, Application US/08967149
; Patent No. 5939305
; GENERAL INFORMATION:
; APPLICANT: Yaver, Debbie Sue
; APPLICANT: Thompson, Sheryl Ann
; TITLE OF INVENTION: GENE ENCODING CARBOXYPEPTIDASE OF
; TITLE OF INVENTION: ASPERGILLUS NIGER
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 5939305o No. 5939305disk of No. 5939305th America, Inc.
; STREET: 405 Lexington Avenue, Suite 6400
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10174-6401
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/967,149
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/608,452
; FILING DATE: 28-FEB-1996
; APPLICATION NUMBER: US 08/309,341
; FILING DATE: 20-SEP-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Lowney, Karen A.
; REGISTRATION NUMBER: 31,274
; REFERENCE/DOCKET NUMBER: 4247.000-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212 867 0123
; TELEFAX: 212 867 0298
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 557 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Aspergillus Niger
US-08-967-149-4
    Query Match 45.0%; Score 50; DB 2; Length 557;
    Best Local Similarity 43.8%; Pred. No. 29;
    Matches 7; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCEWLKNQWNCVL 16
    :|:|:|:|:|
Db 472 DFICNWLGNKAWTEAL 487

; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Aspergillus Niger
US-08-967-149-2
    Query Match 45.0%; Score 50; DB 2; Length 557;
    Best Local Similarity 43.8%; Pred. No. 29;
    Matches 7; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCEWLKNQWNCVL 16
    :|:|:|:|:|
Db 472 DFICNWLGNKAWTEAL 487

RESULT 14
US-08-943-714-9
; Sequence 9, Application US/08943714
; Patent No. 6187578
; GENERAL INFORMATION:
; APPLICANT: Blinkovsky, Alexander
; APPLICANT: Berk, Randy
; APPLICANT: Rey, Michael
; APPLICANT: Golightly, Elizabeth
; APPLICANT: Klotz, Alan
; APPLICANT: Mathisen, Thomas Erik
; APPLICANT: Dambmann, Claus
; TITLE OF INVENTION: Carboxypeptidases And Nucleic Acids
; TITLE OF INVENTION: Encoding Same
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 6187578o No. 6187578disk of No. 6187578th America, Inc.
; STREET: 405 Lexington Avenue
; CITY: New York
; STATE: NY
; COUNTRY: USA
; ZIP: 10174
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/943,714
; FILING DATE: 03-OCT-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Lambiris, Elias J
; REGISTRATION NUMBER: 33,728
; REFERENCE/DOCKET NUMBER: 4990.200-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-867-0123
; TELEFAX: 212-878-9655
; TELEX:
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 423 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-943-714-9
    Query Match 43.2%; Score 48; DB 3; Length 423;
    Best Local Similarity 66.7%; Pred. No. 40;
    Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEWLKN 9
    ||:|:|:|
Db 340 DWICNWLGN 348

RESULT 15
US-08-851-567B-53
; Sequence 53, Application US/08851567B
; Patent No. 6528484
; GENERAL INFORMATION:
; APPLICANT: Ensign, Jerald C
; APPLICANT: Bowen, David J
; APPLICANT: Petell, James
; APPLICANT: Fattig, Raymond
; APPLICANT: Schoonover, Sue
; APPLICANT: French-Constant, Richard
; APPLICANT: Rocheleau, Thomas A.
; APPLICANT: Blackburn, Michael B.
; APPLICANT: Hey, Timothy D.
; APPLICANT: Merlo, Donald J.
; APPLICANT: Orr, Gregory L.
; APPLICANT: Roberts, Jean L.
```

APPLICANT: Strickland, James A.
APPLICANT: Guo, Lining
APPLICANT: Ciche, Todd A.
APPLICANT: Sukhapinda, Kitisi
TITLE OF INVENTION: Insecticidal Protein Toxins From Photorhabdus
NUMBER OF SEQUENCES: 88
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dow AgroSciences Patent Department
STREET: 9330 Zionsville Road
CITY: Indianapolis
STATE: IN
COUNTRY: US
ZIP: 46268
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/851,567B
FILING DATE: 05-MAY-1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/063,615
FILING DATE: 18-MAY-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/395,497
FILING DATE: 28-FEB-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/007,255
FILING DATE: 06-NOV-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/608,423
FILING DATE: 28-FEB-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/705,484
FILING DATE: 28-AUG-1996
ATTORNEY/AGENT INFORMATION:
NAME: Seay, Nicholas J
REGISTRATION NUMBER: 27386
REFERENCE/DOCKET NUMBER: 960296.93804
TELECOMMUNICATION INFORMATION:
TELEPHONE: 608-251-5000
TELEFAX: 608-251-9166
INFORMATION FOR SEQ ID NO: 53:
SEQUENCE CHARACTERISTICS:
LENGTH: 1844 amino acids
TYPE: amino acids
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-851-567B-53

Query Match 43.2%; Score 48; DB 4; Length 1844;
Best Local Similarity 54.5%; Pred. No. 1.8e+02;
Matches 6; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy 2 WVCEWLKNQW 12
| : ||| |
Db 561 WITQWLKTKW 571

Search completed: September 8, 2004, 12:58:38
Job time : 13.2 secs

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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:53:30 ; Search time 44.3 Seconds
(without alignments)
113.793 Million cell updates/sec

Title: US-09-825-517A-125

Perfect score: 103
Sequence: 1 DWCEWLKMQWACNVL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|--------------------|
| 1 | 103 | 100.0 | 16 | 11 | US-09-825-517A-125 |
| 2 | 103 | 100.0 | 16 | 11 | Sequence 125, App |
| 3 | 102 | 99.0 | 16 | 11 | Sequence 142, App |
| 4 | 102 | 99.0 | 16 | 11 | Sequence 112, App |
| 5 | 102 | 99.0 | 16 | 11 | Sequence 122, App |
| 6 | 100 | 97.1 | 16 | 11 | Sequence 140, App |
| 7 | 100 | 97.1 | 16 | 11 | Sequence 54, App |
| 8 | 100 | 97.1 | 16 | 11 | Sequence 138, App |
| 9 | 93 | 90.3 | 16 | 11 | Sequence 143, App |
| 10 | 93 | 90.3 | 16 | 11 | Sequence 49, App |
| 11 | 93 | 90.3 | 16 | 11 | Sequence 141, App |
| 12 | 90 | 87.4 | 16 | 11 | Sequence 151, App |
| 13 | 89 | 86.4 | 16 | 11 | Sequence 101, App |
| 14 | 86 | 83.5 | 16 | 11 | Sequence 126, App |
| 15 | 85 | 82.5 | 16 | 11 | Sequence 148, App |
| | | | | | Sequence 146, App |

| | | | | | | |
|----|----|------|----|----|--------------------|-------------------|
| 16 | 84 | 81.6 | 16 | 11 | US-09-825-517A-115 | Sequence 115, App |
| 17 | 84 | 81.6 | 16 | 11 | US-09-825-517A-130 | Sequence 130, App |
| 18 | 84 | 81.6 | 16 | 11 | US-09-825-517A-144 | Sequence 144, App |
| 19 | 80 | 77.7 | 16 | 11 | US-09-825-517A-68 | Sequence 68, App |
| 20 | 79 | 76.7 | 16 | 11 | US-09-825-517A-80 | Sequence 80, App |
| 21 | 79 | 76.7 | 16 | 11 | US-09-825-517A-147 | Sequence 147, App |
| 22 | 78 | 75.7 | 16 | 11 | US-09-825-517A-75 | Sequence 75, App |
| 23 | 78 | 75.7 | 16 | 11 | US-09-825-517A-76 | Sequence 76, App |
| 24 | 78 | 75.7 | 16 | 11 | US-09-825-517A-107 | Sequence 107, App |
| 25 | 78 | 75.7 | 16 | 11 | US-09-825-517A-117 | Sequence 117, App |
| 26 | 78 | 75.7 | 16 | 11 | US-09-825-517A-135 | Sequence 135, App |
| 27 | 77 | 74.8 | 16 | 11 | US-09-825-517A-59 | Sequence 59, App |
| 28 | 77 | 74.8 | 16 | 11 | US-09-825-517A-127 | Sequence 127, App |
| 29 | 77 | 74.8 | 16 | 11 | US-09-825-517A-139 | Sequence 139, App |
| 30 | 76 | 73.8 | 16 | 11 | US-09-825-517A-103 | Sequence 103, App |
| 31 | 76 | 73.8 | 16 | 11 | US-09-825-517A-104 | Sequence 104, App |
| 32 | 76 | 73.8 | 16 | 11 | US-09-825-517A-105 | Sequence 105, App |
| 33 | 76 | 73.8 | 16 | 11 | US-09-825-517A-113 | Sequence 113, App |
| 34 | 76 | 73.8 | 16 | 11 | US-09-825-517A-137 | Sequence 137, App |
| 35 | 75 | 72.8 | 16 | 11 | US-09-825-517A-67 | Sequence 67, App |
| 36 | 75 | 72.8 | 16 | 11 | US-09-825-517A-82 | Sequence 82, App |
| 37 | 75 | 72.8 | 16 | 11 | US-09-825-517A-90 | Sequence 90, App |
| 38 | 75 | 72.8 | 16 | 11 | US-09-825-517A-106 | Sequence 106, App |
| 39 | 74 | 71.8 | 16 | 11 | US-09-825-517A-65 | Sequence 65, App |
| 40 | 74 | 71.8 | 16 | 11 | US-09-825-517A-86 | Sequence 86, App |
| 41 | 74 | 71.8 | 16 | 11 | US-09-825-517A-118 | Sequence 118, App |
| 42 | 74 | 71.8 | 16 | 11 | US-09-825-517A-150 | Sequence 150, App |
| 43 | 73 | 70.9 | 16 | 11 | US-09-825-517A-116 | Sequence 116, App |
| 44 | 72 | 69.9 | 16 | 11 | US-09-825-517A-72 | Sequence 72, App |
| 45 | 72 | 69.9 | 16 | 11 | US-09-825-517A-78 | Sequence 78, App |

ALIGNMENTS

RESULT 1
US-09-825-517A-125
; Sequence 125, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 125
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-125

Query Match 100.0%; Score 103; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.8e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWCEWLKMQWACNVL 16
|||||
Db 1 DWCEWLKMQWACNVL 16

RESULT 2
US-09-825-517A-142
; Sequence 142, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

```
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 142
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-122

Query Match      100.0%; Score 103; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.8e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 DWVCEWLKMQWACNVL 16
DB      1 DWVCEWLKMQWACNVL 16

RESULT 3
US-09-825-517A-112
; Sequence 112, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 112
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-112

Query Match      99.0%; Score 102; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 5.2e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 DWVCEWLKMQWACNVL 16
DB      1 DWVCEWLKMQWACNVL 16

RESULT 4
US-09-825-517A-122
; Sequence 122, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
```

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; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 122
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-122

Query Match      99.0%; Score 102; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 5.2e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 DWVCEWLKMQWACNVL 16
DB      1 DWVCEWLKMQWACNVL 16

RESULT 5
US-09-825-517A-140
; Sequence 140, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 140
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-140

Query Match      99.0%; Score 102; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 5.2e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 DWVCEWLKMQWACNVL 16
DB      1 DWVCEWLKMQWACNVL 16

RESULT 6
US-09-825-517A-54
; Sequence 54, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 54
; LENGTH: 16
; TYPE: PRT
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```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-54

Query Match          97.1%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 9.6e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNVL 16
Db 1 DWVCEWLKMQWACNVL 16

RESULT 7
US-09-825-517A-138
; Sequence 138, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 138
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-138

Query Match          97.1%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 9.6e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNVL 16
Db 1 DWVCEWLKMQWACNVL 16

RESULT 8
US-09-825-517A-143
; Sequence 143, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 143
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-143

Query Match          97.1%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 9.6e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
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Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNVL 16
Db 1 DWVCEWLKMQWACNVL 16

RESULT 9
US-09-825-517A-49
; Sequence 49, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 49
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-49

Query Match          90.3%; Score 93; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 8.2e-06;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNVL 16
Db 1 DWVCEFLKMQWACNVL 16

RESULT 10
US-09-825-517A-141
; Sequence 141, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 141
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-141

Query Match          90.3%; Score 93; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 8.2e-06;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNVL 16
Db 1 DWVCEWLKMQWFCNAL 16
```

RESULT 11

US-09-825-517A-151
 ; Sequence 151, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825.517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 151
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 ; US-09-825-517A-151

Query Match 90.3%; Score 93; DB 11; Length 16;
 Best Local Similarity 93.8%; Pred. No. 8.2e-06;
 Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNVNL 16
 |||||:|||||
 Db 1 DWVCEFLKMQWACNVNL 16

RESULT 12

US-09-825-517A-101
 ; Sequence 101, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825.517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 101
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 ; US-09-825-517A-101

Query Match 87.4%; Score 90; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 2.1e-05;
 Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNVNL 16
 |||||:|||||
 Db 1 DWVCEWSKMQWSCNAL 16

RESULT 13

US-09-825-517A-126
 ; Sequence 126, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825.517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 126
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 ; US-09-825-517A-126

Query Match 86.4%; Score 89; DB 11; Length 16;
 Best Local Similarity 87.5%; Pred. No. 2.8e-05;
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNVNL 16
 |||||:|||||
 Db 1 DWVCEWLKMQWACNVNL 16

RESULT 14

US-09-825-517A-148
 ; Sequence 148, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825.517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 148
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 ; US-09-825-517A-148

Query Match 83.5%; Score 86; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 7e-05;
 Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNVNL 16
 |||||:|||||
 Db 1 DWVCEWLKHQWFCNAL 16

RESULT 15

US-09-825-517A-146
 ; Sequence 146, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825.517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03


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; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 146
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-146
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Query Match      82.5%   Score 85;   DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 9.5e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
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QY      1 DWVCEWLKXQWACNVL 16
      |||||
Db      1 DWVCEWLKSWFCNSL 16
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Search completed: September 8, 2004, 14:25:08
Job time : 44.3 secs
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:51:54 ; Search time 12.2 Seconds
(without alignments)
67.706 Million cell updates/sec

Title: US-09-825-517A-125
Perfect score: 103
Sequence: 1 DWCEWLKMQWACNVL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA.*
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3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep.*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|----------------------|
| 1 | 46 | 44.7 | 677 | 3 | US-09-061-768A-4 |
| 2 | 46 | 44.7 | 677 | 4 | US-09-764-246-4 |
| 3 | 46 | 44.7 | 1129 | 4 | US-09-252-991A-28552 |
| 4 | 45 | 43.2 | 71 | 4 | US-09-621-976-5666 |
| 5 | 44.5 | 43.2 | 491 | 1 | US-09-640-305-4 |
| 6 | 44.5 | 43.2 | 491 | 1 | US-08-360-673-4 |
| 7 | 44 | 42.7 | 89 | 4 | US-09-621-976-7155 |
| 8 | 44 | 42.7 | 423 | 3 | US-08-943-714-9 |
| 9 | 43 | 41.7 | 428 | 4 | US-08-489-039A-12688 |
| 10 | 43 | 41.7 | 501 | 2 | US-08-288-508C-2 |
| 11 | 43 | 41.7 | 501 | 4 | US-08-981-490B-1 |
| 12 | 42 | 40.8 | 21 | 4 | US-09-337-227C-27 |
| 13 | 42 | 40.8 | 21 | 4 | US-09-723-251A-27 |
| 14 | 41 | 39.8 | 63 | 4 | US-09-497-491-47 |
| 15 | 41 | 39.8 | 170 | 4 | US-09-252-991A-21369 |
| 16 | 41 | 39.8 | 208 | 4 | US-09-252-991A-32166 |
| 17 | 41 | 39.8 | 382 | 4 | US-09-252-991A-25095 |
| 18 | 41 | 39.8 | 393 | 1 | US-08-689-974-4 |
| 19 | 41 | 39.8 | 393 | 3 | US-08-058-376-4 |
| 20 | 41 | 39.8 | 1956 | 3 | US-08-843-417-10 |
| 21 | 41 | 39.8 | 1956 | 4 | US-09-527-013-10 |
| 22 | 40.5 | 39.3 | 20 | 2 | US-07-894-063A-6 |
| 23 | 40.5 | 39.3 | 30 | 1 | US-08-262-037-16 |
| 24 | 40.5 | 39.3 | 38 | 1 | US-08-262-037-95 |
| 25 | 40.5 | 39.3 | 47 | 1 | US-08-262-037-96 |
| 26 | 40.5 | 39.3 | 106 | 3 | US-08-444-818-24 |
| 27 | 40.5 | 39.3 | 176 | 3 | US-08-444-818-28 |

| | | | | | | |
|----|------|------|------|---|--------------------|--------------------|
| 28 | 40.5 | 39.3 | 360 | 4 | US-08-850-328-4 | Sequence 4, Appli |
| 29 | 40.5 | 39.3 | 516 | 3 | US-08-867-611-6 | Sequence 6, Appli |
| 30 | 40.5 | 39.3 | 516 | 4 | US-09-690-359-6 | Sequence 6, Appli |
| 31 | 40.5 | 39.3 | 516 | 5 | PCT-US92-06965A-11 | Sequence 11, Appli |
| 32 | 40.5 | 39.3 | 798 | 3 | US-08-867-611-36 | Sequence 36, Appli |
| 33 | 40.5 | 39.3 | 798 | 4 | US-09-690-359-36 | Sequence 36, Appli |
| 34 | 40.5 | 39.3 | 859 | 3 | US-08-444-818-30 | Sequence 30, Appli |
| 35 | 40.5 | 39.3 | 1040 | 4 | US-10-104-966-9 | Sequence 9, Appli |
| 36 | 40.5 | 39.3 | 1786 | 3 | US-08-444-818-54 | Sequence 54, Appli |
| 37 | 40.5 | 39.3 | 2261 | 3 | US-08-444-818-66 | Sequence 66, Appli |
| 38 | 40.5 | 39.3 | 2436 | 3 | US-08-444-818-75 | Sequence 75, Appli |
| 39 | 40.5 | 39.3 | 2772 | 3 | US-08-444-818-89 | Sequence 89, Appli |
| 40 | 40.5 | 39.3 | 2894 | 2 | US-08-466-375A-23 | Sequence 23, Appli |
| 41 | 40.5 | 39.3 | 2894 | 2 | US-08-391-671A-23 | Sequence 23, Appli |
| 42 | 40.5 | 39.3 | 2894 | 3 | US-08-467-902A-23 | Sequence 23, Appli |
| 43 | 40.5 | 39.3 | 2894 | 3 | US-09-275-265-23 | Sequence 23, Appli |
| 44 | 40.5 | 39.3 | 2894 | 4 | US-09-941-611-23 | Sequence 23, Appli |
| 45 | 40.5 | 39.3 | 2955 | 2 | US-08-443-260-3 | Sequence 3, Appli |

ALIGNMENTS

RESULT 1
US-09-061-768A-4
; Sequence 4, Application US/09061768A
; Patent No. 6204037
; GENERAL INFORMATION:
; APPLICANT: BRASH, ALAN R.
; APPLICANT: BOEGLIN, WILLIAM E.
; APPLICANT: JISAKA, MITSUO
; TITLE OF INVENTION: LIPOXYGENASE PROTEINS AND NUCLEIC ACIDS
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARLES A. TAYLOR, JR.
; STREET: SUITE 1400, UNIVERSITY TOWER, 3100 TOWER BOULEVARD
; CITY: DURHAM
; STATE: NORTH CAROLINA
; COUNTRY: USA
; ZIP: 27707
COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4 MB storage
; COMPUTER: IBM PC/XT/AT compatible
; OPERATING SYSTEM: Windows 3.1
; SOFTWARE: WORD PERFECT 6.1 and ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/061,768A
; FILING DATE: APRIL 16, 1998
; CLASSIFICATION: 435
; PRIOR APPLICATION NUMBER:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: ARLES A. TAYLOR, JR.
; REGISTRATION NUMBER: 39,395
; REFERENCE/DOCKET NUMBER: 1242/5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (919) 493-8000
; TELEFAX: (919) 419-0383
; TELEX:
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 677 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: unknown
US-09-061-768A-4

Query Match 44.7%; Score 46; DB 3; Length 677;
Best Local Similarity 40.0%; Pred. No. 44;
Matches 4; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 2 WVCEWLKMQW 11


```
; APPLICATION NUMBER: US/09/640,305
; FILING DATE: 16-AUG-2000
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/360,673
; FILING DATE: 06-FEB-1995
; APPLICATION NUMBER: WO PCT/FR93/00623
; FILING DATE: 23-JUN-1993
; APPLICATION NUMBER: FR 92/07785
; FILING DATE: 25-JUN-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Smith, Julie K.
; REGISTRATION NUMBER: 38,619
; REFERENCE/DOCKET NUMBER: ST92040-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (610)454-3839
; TELEFAX: (610)454-3808
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 491 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-640-305-4

Query Match      43.2%; Score 44.5; DB 1; Length 491;
Best Local Similarity 33.3%; Pred. No. 53;
Matches 7; Conservative 4; Mismatches 3; Indels 7; Gaps 1;

Qy      1 DWVCEWL-----KMOWACN 14
      ||:|||
      405 DYICWNLGNLAWTEKLEWRYN 425

Db

RESULT 6
US-08-360-673-4
; Sequence 4, Application US/08360673
; Patent No. 5679544
; GENERAL INFORMATION:
; APPLICANT: Fleer, Reinhard
; APPLICANT: Fournier, Alain
; APPLICANT: Yeh, Patrice
; TITLE OF INVENTION: MODIFIED KLUYVEROMYCES YEASTS, THEIR
; TITLE OF INVENTION: PREPARATION AND USE
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Rhone-Poulenc Rorer Inc.
; STREET: 500 Arcola Rd. 3C43
; CITY: Collegeville
; STATE: PA
; COUNTRY: USA
; ZIP: 19002
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/360,673
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO PCT/FR93/00623
; FILING DATE: 23-JUN-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: FR 92/07785
; FILING DATE: 25-JUN-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Smith, Julie K.
; REGISTRATION NUMBER: 38,619
; REFERENCE/DOCKET NUMBER: ST92040-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (610)454-3839
```

```
; TELEFAX: (610)454-3808
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 491 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-360-673-4

Query Match      43.2%; Score 44.5; DB 1; Length 491;
Best Local Similarity 33.3%; Pred. No. 53;
Matches 7; Conservative 4; Mismatches 3; Indels 7; Gaps 1;

Qy      1 DWVCEWL-----KMOWACN 14
      ||:|||
      405 DYICWNLGNLAWTEKLEWRYN 425

Db

RESULT 7
US-09-621-976-7155
; Sequence 7155, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 7155
; LENGTH: 89
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-621-976-7155

Query Match      42.7%; Score 44; DB 4; Length 89;
Best Local Similarity 45.5%; Pred. No. 10;
Matches 5; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy      1 DWVCEWLKMOW 11
      ||:|||
      45 DWLADWWKVGW 55

Db

RESULT 8
US-08-943-714-9
; Sequence 9, Application US/08943714
; Patent No. 6187578
; GENERAL INFORMATION:
; APPLICANT: Blinkovsky, Alexander
; APPLICANT: Berk, Randy
; APPLICANT: Rey, Michael
; APPLICANT: Golightly, Elizabeth
; APPLICANT: Klotz, Alan
; APPLICANT: Mathisen, Thomas Erik
; APPLICANT: Dammann, Claus
; TITLE OF INVENTION: Carboxypeptidases And Nucleic Acids
; TITLE OF INVENTION: Encoding Same
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 61875780 No. 6187578disk of No. 6187578th America, Inc.
; STREET: 405 Lexington Avenue
; CITY: New York
; STATE: NY
; COUNTRY: USA
; ZIP: 10174
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
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; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/943,714
; FILING DATE: 03-OCT-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Lambiris, Elias J
; REGISTRATION NUMBER: 33,728
; REFERENCE/DOCKET NUMBER: 4990,200-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-867-0123
; TELEFAX: 212-878-9655
; TELEX:
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 423 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-943-714-9

Query Match 42.7%; Score 44; DB 3; Length 423;
Best Local Similarity 71.4%; Pred. No. 53;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWL 7
Db 340 DWICNWL 346

RESULT 9
US-09-489-039A-12688
; Sequence 12688, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; FILE REFERENCE: 2709,2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 12688
; LENGTH: 428
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-12688

Query Match 41.7%; Score 43; DB 4; Length 428;
Best Local Similarity 53.8%; Pred. No. 76;
Matches 7; Conservative 2; Mismatches 2; Indels 2; Gaps 1;

Qy 1 DWVCEWLK--MQW 11
Db 110 NWIFWAKEAQQW 122

RESULT 10
US-08-288-508C-2
; Sequence 2, Application US/08288508C
; Patent No. 5994094
; GENERAL INFORMATION:
; APPLICANT: H tten, Gertrud
; APPLICANT: Neidhardt, Helge
; APPLICANT: Paulista, Michael
; TITLE OF INVENTION: NEW GROWTH/DIFFERENTIATING FACTOR OF
; TITLE OF INVENTION: THE TGF- FAMILY
; NUMBER OF SEQUENCES: 40
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nikaïdo, Marmelstein, Murray & Oram LLP
; STREET: 655 Fifteenth Street N.W. Suite 330
```

```
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005-5701
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/288,508C
; FILING DATE: 10-AUG-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: DE P 43 26 829.3
; FILING DATE: 10-AUG-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: DE P 44 18 222.8
; FILING DATE: 25-MAY-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: DE P 44 20 157.5
; FILING DATE: 09-JUN-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: JAHNS, Kristina M.
; REGISTRATION NUMBER: P-41,092
; REFERENCE/DOCKET NUMBER: P564-4019
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202)638-5000
; TELEFAX: (202)638-4810
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 501 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-288-508C-2

Query Match 41.7%; Score 43; DB 2; Length 501;
Best Local Similarity 40.0%; Pred. No. 90;
Matches 6; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

Qy 2 WVCEWLKMQWACNVL 16
Db 12 WYLAWLDEFTCTVL 26

RESULT 11
US-08-981-490B-1
; Sequence 1, Application US/08981490B
; Patent No. 6531450
; GENERAL INFORMATION:
; APPLICANT: Hotten, Gertrud
; APPLICANT: Pohl, Jens
; APPLICANT: Bechtold, Rolf
; APPLICANT: Paulista, Michael
; APPLICANT: Unsicker, Klaus
; TITLE OF INVENTION: USE OF MP52 OR MP121 FOR TREATING AND PREVENTING DISEASES OF THE
; TITLE OF INVENTION: NERVOUS SYSTEM
; FILE REFERENCE: 100564-07032
; CURRENT APPLICATION NUMBER: US/08/981,490B
; CURRENT FILING DATE: 1998-05-18
; PRIOR APPLICATION NUMBER: PCT/EP96/03065
; PRIOR FILING DATE: 1996-07-12
; PRIOR APPLICATION NUMBER: DE/195 25 416.3
; PRIOR FILING DATE: 1995-07-12
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 501
; TYPE: PRT
; ORGANISM: Homo sapiens
US-08-981-490B-1
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Query Match 41.7%; Score 43; DB 4; Length 501;
Best Local Similarity 40.0%; Pred. No. 90;
Matches 6; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

Qy 2 WVCEWLKMQWACNVL 16
Db 12 WYLAWLDEFICTVL 26

RESULT 12
US-09-337-227C-27
; Sequence 27, Application US/09337227C
; Patent No. 6420518
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2.rev
; CURRENT APPLICATION NUMBER: US/09/337,227C
; CURRENT FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/052,888
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6420518
US-09-337-227C-27

Query Match 40.8%; Score 42; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 4.3;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

Qy 2 WVCEWLKMQWAC 13
Db 3 WVCRAGPLQMLC 14

RESULT 13
US-09-723-251A-27
; Sequence 27, Application US/09723251A
; Patent No. 6608028
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2C1.2rev
; CURRENT APPLICATION NUMBER: US/09/723,251A
; CURRENT FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: US 09/337,227
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized

; Patent No. 6608028
US-09-723-251A-27

Query Match 40.8%; Score 42; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 4.3;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

Qy 2 WVCEWLKMQWAC 13
Db 3 WVCRAGPLQMLC 14

RESULT 14
US-09-497-491-47
; Sequence 47, Application US/09497491
; Patent No. 6630573
; GENERAL INFORMATION:
; APPLICANT: Walker, Craig
; APPLICANT: Shetty, Reshma
; APPLICANT: Olivera, Baldomero M.
; APPLICANT: Hooper, David
; APPLICANT: Jacobsen, Richard
; APPLICANT: Steele, Doug
; APPLICANT: Jones, Robert M.
; TITLE OF INVENTION: Tau-Conotoxin Peptides
; FILE REFERENCE: Tau-Conopeptides
; CURRENT APPLICATION NUMBER: US/09/497,491
; CURRENT FILING DATE: 2000-02-04
; EARLIER APPLICATION NUMBER: US 60/118,642
; EARLIER FILING DATE: 1999-02-04
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 47
; LENGTH: 63
; TYPE: PRT
; ORGANISM: Conus gloriamaris
US-09-497-491-47

Query Match 39.8%; Score 41; DB 4; Length 63;
Best Local Similarity 83.3%; Pred. No. 20;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWCEW 6
Db 57 DWCEW 62

RESULT 15
US-09-252-991A-21369
; Sequence 21369, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 21369
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-21369

Query Match 39.8%; Score 41; DB 4; Length 170;
Best Local Similarity 50.0%; Pred. No. 56;
Matches 5; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy 2 WVCEWLKMOV 11
|:|
Db 36 WLCWLASOW 45

Search completed: September 8, 2004, 12:58:37
Job time : 12.2 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:53:30 ; Search time 44.3 Seconds
(without alignments)
113.793 Million cell updates/sec

Title: US-09-825-517A-124
Perfect score: 102
Sequence: 1 DWVCNLFKNQWFCDDV 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

1: /cgn2_6/ptodata/1/pubaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/1/pubaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/1/pubaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/1/pubaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/1/pubaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/1/pubaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|--------------------|
| 1 | 102 | 100.0 | 16 | 11 | US-09-825-517A-124 |
| 2 | 99 | 97.1 | 16 | 11 | US-09-825-517A-42 |
| 3 | 99 | 97.1 | 16 | 11 | US-09-825-517A-46 |
| 4 | 99 | 97.1 | 16 | 11 | US-09-825-517A-52 |
| 5 | 99 | 97.1 | 16 | 11 | US-09-825-517A-129 |
| 6 | 98 | 96.1 | 16 | 11 | US-09-825-517A-58 |
| 7 | 98 | 96.1 | 16 | 11 | US-09-825-517A-62 |
| 8 | 98 | 96.1 | 16 | 11 | US-09-825-517A-74 |
| 9 | 98 | 96.1 | 16 | 11 | US-09-825-517A-120 |
| 10 | 96 | 94.1 | 16 | 11 | US-09-825-517A-38 |
| 11 | 96 | 94.1 | 16 | 11 | US-09-825-517A-45 |
| 12 | 96 | 94.1 | 16 | 11 | US-09-825-517A-47 |
| 13 | 96 | 94.1 | 16 | 11 | US-09-825-517A-73 |
| 14 | 96 | 94.1 | 16 | 11 | US-09-825-517A-121 |
| 15 | 95 | 93.1 | 16 | 11 | US-09-825-517A-81 |

| | | | | | | |
|----|----|------|----|----|--------------------|-------------------|
| 16 | 95 | 93.1 | 16 | 11 | US-09-825-517A-83 | Sequence 83, Appl |
| 17 | 95 | 93.1 | 16 | 11 | US-09-825-517A-132 | Sequence 132, App |
| 18 | 95 | 93.1 | 16 | 11 | US-09-825-517A-145 | Sequence 145, App |
| 19 | 94 | 92.2 | 16 | 11 | US-09-825-517A-48 | Sequence 48, Appl |
| 20 | 94 | 92.2 | 16 | 11 | US-09-825-517A-50 | Sequence 50, Appl |
| 21 | 94 | 92.2 | 16 | 11 | US-09-825-517A-53 | Sequence 53, Appl |
| 22 | 94 | 92.2 | 16 | 11 | US-09-825-517A-69 | Sequence 69, Appl |
| 23 | 94 | 92.2 | 16 | 11 | US-09-825-517A-77 | Sequence 77, Appl |
| 24 | 94 | 92.2 | 16 | 11 | US-09-825-517A-98 | Sequence 98, Appl |
| 25 | 94 | 92.2 | 16 | 11 | US-09-825-517A-128 | Sequence 128, App |
| 26 | 94 | 92.2 | 16 | 11 | US-09-825-517A-136 | Sequence 136, App |
| 27 | 93 | 91.2 | 16 | 11 | US-09-825-517A-37 | Sequence 37, Appl |
| 28 | 93 | 91.2 | 16 | 11 | US-09-825-517A-39 | Sequence 39, Appl |
| 29 | 93 | 91.2 | 16 | 11 | US-09-825-517A-57 | Sequence 57, Appl |
| 30 | 93 | 91.2 | 16 | 11 | US-09-825-517A-66 | Sequence 66, Appl |
| 31 | 93 | 91.2 | 16 | 11 | US-09-825-517A-84 | Sequence 84, Appl |
| 32 | 93 | 91.2 | 16 | 11 | US-09-825-517A-119 | Sequence 119, App |
| 33 | 93 | 91.2 | 16 | 11 | US-09-825-517A-131 | Sequence 131, App |
| 34 | 93 | 91.2 | 16 | 11 | US-09-825-517A-134 | Sequence 134, App |
| 35 | 92 | 90.2 | 16 | 11 | US-09-825-517A-43 | Sequence 43, Appl |
| 36 | 91 | 89.2 | 16 | 11 | US-09-825-517A-41 | Sequence 41, Appl |
| 37 | 91 | 89.2 | 16 | 11 | US-09-825-517A-79 | Sequence 79, Appl |
| 38 | 89 | 87.3 | 16 | 11 | US-09-825-517A-61 | Sequence 61, Appl |
| 39 | 89 | 87.3 | 16 | 11 | US-09-825-517A-64 | Sequence 64, Appl |
| 40 | 89 | 87.3 | 16 | 11 | US-09-825-517A-99 | Sequence 99, Appl |
| 41 | 88 | 86.3 | 16 | 11 | US-09-825-517A-40 | Sequence 40, Appl |
| 42 | 88 | 86.3 | 16 | 11 | US-09-825-517A-71 | Sequence 71, Appl |
| 43 | 88 | 86.3 | 16 | 11 | US-09-825-517A-108 | Sequence 108, App |
| 44 | 87 | 85.3 | 16 | 11 | US-09-825-517A-89 | Sequence 89, Appl |
| 45 | 87 | 85.3 | 16 | 11 | US-09-825-517A-92 | Sequence 92, Appl |

ALIGNMENTS

RESULT 1
US-09-825-517A-124
; Sequence 124, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 124
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-124

Query Match 100.0%; Score 102; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.3e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDDV 16
| | | | | | | | | | | | | | | |
Db 1 DWVCNLFKNQWFCDDV 16

RESULT 2
US-09-825-517A-42
; Sequence 42, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

```
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US/09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 42
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-42
```

```
Query Match          97.1%; Score 99; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 3.3e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 DWVCNLFKNQWFCDDV 16
    |||||
Db 1 DWVCNLFKNQWFCDDV 16
```

RESULT 3

US-09-825-517A-46

; Sequence 46, Application US/09825517A

; Publication No. US20030203415A1

; GENERAL INFORMATION:

; APPLICANT: Rondon, Issac J

; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC

; TITLE OF INVENTION: ANTIGEN (CEA)

; FILE REFERENCE: DYX-016.1 (3421.1005-001)

; CURRENT APPLICATION NUMBER: US/09/825,517A

; CURRENT FILING DATE: 2003-03-24

; PRIOR APPLICATION NUMBER: US/09/541,345

; PRIOR FILING DATE: 2000-04-03

; NUMBER OF SEQ ID NOS: 151

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 46

; LENGTH: 16

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: CEA binding polypeptide

US-09-825-517A-46

```
Query Match          97.1%; Score 99; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 3.3e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 DWVCNLFKNQWFCDDV 16
    |||||
Db 1 DWVCNLFKNQWFCDDV 16
```

RESULT 4

US-09-825-517A-52

; Sequence 52, Application US/09825517A

; Publication No. US20030203415A1

; GENERAL INFORMATION:

; APPLICANT: Rondon, Issac J

; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC

; TITLE OF INVENTION: ANTIGEN (CEA)

; FILE REFERENCE: DYX-016.1 (3421.1005-001)

; CURRENT APPLICATION NUMBER: US/09/825,517A

; CURRENT FILING DATE: 2003-03-24

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; PRIOR APPLICATION NUMBER: US/09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-52
```

```
Query Match          97.1%; Score 99; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 3.3e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 DWVCNLFKNQWFCDDV 16
    |||||
Db 1 DWVCNLFKNQWFCDDV 16
```

RESULT 5

US-09-825-517A-129

; Sequence 129, Application US/09825517A

; Publication No. US20030203415A1

; GENERAL INFORMATION:

; APPLICANT: Rondon, Issac J

; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC

; TITLE OF INVENTION: ANTIGEN (CEA)

; FILE REFERENCE: DYX-016.1 (3421.1005-001)

; CURRENT APPLICATION NUMBER: US/09/825,517A

; CURRENT FILING DATE: 2003-03-24

; PRIOR APPLICATION NUMBER: US/09/541,345

; PRIOR FILING DATE: 2000-04-03

; NUMBER OF SEQ ID NOS: 151

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 129

; LENGTH: 16

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Synthetic 16-mer microprotein analogue

US-09-825-517A-129

```
Query Match          97.1%; Score 99; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 3.3e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 DWVCNLFKNQWFCDDV 16
    |||||
Db 1 DWVCNLFKNQWFCDDV 16
```

RESULT 6

US-09-825-517A-58

; Sequence 58, Application US/09825517A

; Publication No. US20030203415A1

; GENERAL INFORMATION:

; APPLICANT: Rondon, Issac J

; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC

; TITLE OF INVENTION: ANTIGEN (CEA)

; FILE REFERENCE: DYX-016.1 (3421.1005-001)

; CURRENT APPLICATION NUMBER: US/09/825,517A

; CURRENT FILING DATE: 2003-03-24

; PRIOR APPLICATION NUMBER: US/09/541,345

; PRIOR FILING DATE: 2000-04-03

; NUMBER OF SEQ ID NOS: 151

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 58

; LENGTH: 16

; TYPE: PRT

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-58

Query Match          96.1%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 4.6e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDV 15
Db 1 DWVCNLFKNQWFCDDV 15

RESULT 7
US-09-825-517A-62
; Sequence 62, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 62
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-62

Query Match          96.1%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 4.6e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDV 15
Db 1 DWVCNLFKNQWFCDDV 15

RESULT 8
US-09-825-517A-74
; Sequence 74, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 74
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-74

Query Match          96.1%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 4.6e-07;
```

```
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDV 15
Db 1 DWVCNLFKNQWFCDDV 15

RESULT 9
US-09-825-517A-120
; Sequence 120, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 120
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-120

Query Match          96.1%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 4.6e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDV 15
Db 1 DWVCNLFKNQWFCDDV 15

RESULT 10
US-09-825-517A-38
; Sequence 38, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 38
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-38

Query Match          94.1%; Score 96; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 8.8e-07;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDV 16
Db 1 DWVCNLFKNQWFCDDM 16
```

RESULT 11
US-09-825-517A-45
; Sequence 45, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 45
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-45

Query Match 94.1%; Score 96; DB 11; Length 16;
Best Local Similarity 86.7%; Pred. No. 8.8e-07;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDV 15
||:|||||
Db 1 DWICNLFKNQWFCDDI 15

RESULT 12
US-09-825-517A-47
; Sequence 47, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 47
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-47

Query Match 94.1%; Score 96; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 8.8e-07;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDV 16
||:|||||
Db 1 DWICNLFKNQWFCDDI 16

RESULT 13
US-09-825-517A-73
; Sequence 73, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 73
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-73

Query Match 94.1%; Score 96; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 8.8e-07;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDV 16
||:|||||
Db 1 DWVCNLFKNQWFCDDV 16

RESULT 14
US-09-825-517A-121
; Sequence 121, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 121
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-121

Query Match 94.1%; Score 96; DB 11; Length 16;
Best Local Similarity 86.7%; Pred. No. 8.8e-07;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDV 15
||:|||||
Db 1 DWICNLFKNQWFCDDI 15

RESULT 15
US-09-825-517A-81
; Sequence 81, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR FILING DATE: 2000-04-03

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; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 81
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-81

Query Match      93.1%; Score 95; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.2e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy      1 DWVCNLFKNQWFCDVV 16
        |||||
Db      1 DWVCNLFKNQWFCDAL 16

Search completed: September 8, 2004, 14:25:08
Job time : 44.3 secs
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:51:54 ; Search time 12.2 Seconds
(without alignments)
67.706 Million cell updates/sec

Title: US-09-825-517A-124
Perfect score: 102
Sequence: 1 DWVCNLFKNQWFCDDV 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA.*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep.*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/PCFUS_COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|----------------------|
| 1 | 48 | 47.1 | 215 | 3 | US-09-131-028A-3 |
| 2 | 48 | 47.1 | 215 | 3 | US-09-131-028A-13 |
| 3 | 45 | 44.1 | 478 | 4 | US-09-137-223A-2 |
| 4 | 44 | 43.1 | 612 | 4 | US-09-252-991A-17516 |
| 5 | 43 | 42.2 | 21 | 4 | US-09-337-227C-27 |
| 6 | 43 | 42.2 | 21 | 4 | US-09-723-251A-27 |
| 7 | 43 | 42.2 | 480 | 2 | US-08-828-488-8 |
| 8 | 43 | 42.2 | 480 | 4 | US-09-299-589A-8 |
| 9 | 43 | 42.2 | 480 | 4 | US-09-702-705-336 |
| 10 | 43 | 42.2 | 480 | 4 | US-09-736-457-336 |
| 11 | 43 | 42.2 | 480 | 4 | US-09-614-124B-336 |
| 12 | 43 | 42.2 | 480 | 4 | US-09-671-325-336 |
| 13 | 43 | 42.2 | 480 | 4 | US-09-589-184-336 |
| 14 | 42.5 | 41.7 | 190 | 1 | US-08-816-241-1 |
| 15 | 42.5 | 41.7 | 190 | 3 | US-09-128-395-1 |
| 16 | 41 | 40.2 | 582 | 3 | US-08-194-560-2 |
| 17 | 41 | 40.2 | 2474 | 4 | US-08-265-967C-3 |
| 18 | 41 | 40.2 | 2474 | 4 | US-08-305-790B-4 |
| 19 | 40.5 | 39.7 | 181 | 3 | US-09-029-213B-22 |
| 20 | 40 | 39.2 | 163 | 4 | US-09-621-976-5113 |
| 21 | 40 | 39.2 | 211 | 4 | US-09-198-452A-619 |
| 22 | 39.5 | 38.7 | 286 | 4 | US-09-328-352-5022 |
| 23 | 39.5 | 38.7 | 670 | 4 | US-09-587-811A-2 |
| 24 | 39 | 38.2 | 80 | 4 | US-09-673-395A-447 |
| 25 | 39 | 38.2 | 131 | 2 | US-08-834-655-9 |
| 26 | 39 | 38.2 | 131 | 3 | US-08-834-033A-10 |
| 27 | 39 | 38.2 | 131 | 3 | US-09-363-574-9 |

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28 39 38.2 131 4 US-09-363-526-9 Sequence 9, Appli
29 39 38.2 219 4 US-09-439-261-20 Sequence 20, Appl
30 39 38.2 219 4 US-09-227-613-19 Sequence 13, Appl
31 39 38.2 227 4 US-08-213-419B-13 Sequence 13, Appl
32 39 38.2 287 4 US-09-439-261-13 Sequence 13, Appl
33 39 38.2 287 4 US-09-227-613-14 Sequence 14, Appl
34 39 38.2 288 4 US-09-439-261-14 Sequence 14, Appl
35 39 38.2 288 4 US-09-439-261-16 Sequence 15, Appl
36 39 38.2 288 4 US-09-439-261-18 Sequence 15, Appl
37 39 38.2 288 4 US-09-227-613-15 Sequence 11, Appl
38 39 38.2 444 4 US-09-439-261-11 Sequence 43, Appl
39 39 38.2 444 4 US-09-439-261-43 Sequence 12, Appl
40 39 38.2 444 4 US-09-227-613-12 Sequence 42, Appl
41 39 38.2 444 4 US-09-227-613-42 Sequence 3, Appl
42 39 38.2 444 4 US-09-048-888-3 Sequence 39, Appl
43 39 38.2 445 4 US-09-439-261-39 Sequence 45, Appl
44 39 38.2 445 4 US-09-439-261-45 Sequence 45, Appl
45 39 38.2 932 4 US-09-328-352-7453 Sequence 7453, Ap

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ALIGNMENTS

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RESULT 1
US-09-131-028A-3
; Sequence 3, Application US/09131028A
; Patent No. 6287866
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Mukerji, Pradip
; APPLICANT: Lemmel, Steven A.
; APPLICANT: Leonard, Amanda Eun-Yeong
; APPLICANT: Chaudhary, Sunita
; TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS
; FILE REFERENCE: 6004.US.P1
; CURRENT APPLICATION NUMBER: US/09/131,028A
; CURRENT FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: US 08/064,440
; PRIOR FILING DATE: 1993-05-21
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 215
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-131-028A-3
Query Match 47.1%; Score 48; DB 3; Length 215;
Best Local Similarity 50.0%; Pred. No. 12;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 2 WVCNLFKNQWFCDDV 15
| | | | | | | | | |
Db 12 WFCGLRGNEFCV 25

RESULT 2
US-09-131-028A-13
; Sequence 13, Application US/09131028A
; Patent No. 6287866
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Mukerji, Pradip
; APPLICANT: Lemmel, Steven A.
; APPLICANT: Leonard, Amanda Eun-Yeong
; APPLICANT: Chaudhary, Sunita
; TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS
; FILE REFERENCE: 6004.US.P1
; CURRENT APPLICATION NUMBER: US/09/131,028A
; CURRENT FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: US 08/064,440
; PRIOR FILING DATE: 1993-05-21
; NUMBER OF SEQ ID NOS: 22

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; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 215
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-131-028A-13

Query Match 47.1%; Score 48; DB 3; Length 215;
Best Local Similarity 50.0%; Pred. No. 12;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 2 WVCNLFKNQWFCDV 15
Db 12 WFCGLRGNEFFCEV 25

RESULT 3

US-09-137-223A-2
; Sequence 2, Application US/09137223A
; Patent No. 6420525

; GENERAL INFORMATION:
; APPLICANT: Yee, David P

; APPLICANT: Deisher, Theresa A

; TITLE OF INVENTION: TESTIS-SPECIFIC TRANSCRIPTION FACTOR

; FILE REFERENCE: ZGCU-1

; CURRENT APPLICATION NUMBER: US/09/137,223A

; CURRENT FILING DATE: 1998-08-19

; PRIOR APPLICATION NUMBER: 06/056,130

; PRIOR FILING DATE: 1997-08-19

; NUMBER OF SEQ ID NOS: 16

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 2

; LENGTH: 478

; TYPE: PRT

; ORGANISM: homo sapiens

US-09-137-223A-2

Query Match 44.1%; Score 45; DB 4; Length 478;
Best Local Similarity 41.7%; Pred. No. 70;
Matches 5; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWF 12
Db 322 EWLSSVYKQWF 333

RESULT 4

US-09-252-991A-17516

; Sequence 17516, Application US/09252991A
; Patent No. 6551795

; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

; FILE REFERENCE: 107196.136

; CURRENT APPLICATION NUMBER: US/09/252,991A

; CURRENT FILING DATE: 1999-02-18

; PRIOR APPLICATION NUMBER: US 60/074,788

; PRIOR FILING DATE: 1998-02-18

; PRIOR APPLICATION NUMBER: US 60/094,190

; PRIOR FILING DATE: 1998-07-27

; NUMBER OF SEQ ID NOS: 33142

; SEQ ID NO 17516

; LENGTH: 612

; TYPE: PRT

; ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-17516

Query Match 43.1%; Score 44; DB 4; Length 612;
Best Local Similarity 75.0%; Pred. No. 1.2e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 WVCNLFKN 9
Db 54 WICNLFAN 61

RESULT 5

US-09-337-227C-27

; Sequence 27, Application US/09337227C

; Patent No. 6420518

; GENERAL INFORMATION:

; APPLICANT: Chen, Yvonne May-Yee

; APPLICANT: Clark, Ross G.

; APPLICANT: Cochran, Andrea G.

; APPLICANT: Lowman, Henry B.

; APPLICANT: Robinson, Iain C.A.F.

; APPLICANT: Skelton, Nicholas J.

; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES

; FILE REFERENCE: P1071P2.rev

; CURRENT APPLICATION NUMBER: US/09/337,227C

; CURRENT FILING DATE: 1999-06-22

; PRIOR APPLICATION NUMBER: US 09/052,888

; PRIOR FILING DATE: 1998-03-31

; PRIOR APPLICATION NUMBER: US 08/825,852

; PRIOR FILING DATE: 1997-04-04

; NUMBER OF SEQ ID NOS: 51

; SEQ ID NO 27

; LENGTH: 21

; TYPE: PRT

; ORGANISM: Artificial sequence

; FEATURE:

; OTHER INFORMATION: Sequence is synthesized

; Patent No. 6420518

US-09-337-227C-27

Query Match 42.2%; Score 43; DB 4; Length 21;
Best Local Similarity 46.2%; Pred. No. 5.6;
Matches 6; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 2 WVCNLFKNQWPCD 14
Db 3 WVCRAGPLQWLCE 15

RESULT 6

US-09-723-251A-27

; Sequence 27, Application US/09723251A

; Patent No. 6608028

; GENERAL INFORMATION:

; APPLICANT: Chen, Yvonne May-Yee

; APPLICANT: Clark, Ross G.

; APPLICANT: Cochran, Andrea G.

; APPLICANT: Lowman, Henry B.

; APPLICANT: Robinson, Iain C.A.F.

; APPLICANT: Skelton, Nicholas J.

; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES

; FILE REFERENCE: P1071P2C1.2Rev

; CURRENT APPLICATION NUMBER: US/09/723,251A

; CURRENT FILING DATE: 2000-11-27

; PRIOR APPLICATION NUMBER: US 09/337,227

; PRIOR FILING DATE: 1999-06-22

; PRIOR APPLICATION NUMBER: US 08/825,852

; PRIOR FILING DATE: 1997-04-04

; NUMBER OF SEQ ID NOS: 51

; SEQ ID NO 27

; LENGTH: 21

; TYPE: PRT

; ORGANISM: Artificial sequence

; FEATURE:

; OTHER INFORMATION: Sequence is synthesized

; Patent No. 6608028

US-09-723-251A-27

Query Match 42.2%; Score 43; DB 4; Length 21;


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Best Local Similarity 46.2%; Pred. No. 5.6;
Matches 6; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

Qy 2 WVCNLFKNQWFC 14
Db 3 WVCRAQLQWLCE 15

RESULT 7
US-08-828-488-8
; Sequence 8, Application US/08828488
; Patent No. 5925521
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; TITLE OF INVENTION: NOVEL HUMAN SERINE
; CARBOXYPEPTIDASE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/299,689A
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/828,488
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0241 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 480 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 190283
; US-09-299-689A-8

Query Match 42.2%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.3e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFC 14
Db 400 DMACNFMGDEWFD 413

RESULT 9
US-09-702-705-336
; Sequence 336, Application US/09702705
; Patent No. 6504010
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedrick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C14
; CURRENT APPLICATION NUMBER: US/09/702,705
; CURRENT FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 1833
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336

Query Match 42.2%; Score 43; DB 2; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.3e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFC 14
Db 400 DMACNFMGDEWFD 413

RESULT 8
US-09-299-689A-8
; Sequence 8, Application US/09299689A
; Patent No. 6379913
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Hawkins, Phillip R.
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; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-702-705-336

Query Match      42.2%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.3e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWPCD 14
Db      ||| :|||
      400 DMACNFMGDEWFVD 413

RESULT 10
US-09-736-457-336
; Sequence 336, Application US/09736457
; Patent No. 6509448
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; APPLICANT: Wang, Aijun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C15
; CURRENT APPLICATION NUMBER: US/09/736.457
; CURRENT FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 1864
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-736-457-336

Query Match      42.2%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.3e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWPCD 14
Db      ||| :|||
      400 DMACNFMGDEWFVD 413

RESULT 11
US-09-614-124B-336
; Sequence 336, Application US/09614124B
; Patent No. 6630574
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Wang, Aijun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.478C9
; CURRENT APPLICATION NUMBER: US/09/614.124B
; CURRENT FILING DATE: 2001-07-11
; NUMBER OF SEQ ID NOS: 1668
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-614-124B-336

Query Match      42.2%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.3e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWPCD 14
Db      ||| :|||
      400 DMACNFMGDEWFVD 413

RESULT 12
US-09-671-325-336
; Sequence 336, Application US/09671325
; Patent No. 6667154
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C12
; CURRENT APPLICATION NUMBER: US/09/671.325
; CURRENT FILING DATE: 2000-09-26
; NUMBER OF SEQ ID NOS: 1825
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-671-325-336

Query Match      42.2%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.3e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWPCD 14
Db      ||| :|||
      400 DMACNFMGDEWFVD 413

RESULT 13
US-09-589-184-336
; Sequence 336, Application US/09589184
; Patent No. 6686447
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Wang, Aijun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.478C8
; CURRENT APPLICATION NUMBER: US/09/589.184
; CURRENT FILING DATE: 2000-06-05
; NUMBER OF SEQ ID NOS: 827
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-589-184-336
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us-09-825-517a-124.ra1

Wed Sep 8 16:40:44 2004

US-09-589-184-336

Query Match 42.2%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.3e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCF 14
Db 400 DMACNFMGDEWFD 413

RESULT 14

US-08-816-241-1
Sequence 1, Application US/08816241
Patent No. 5804185
GENERAL INFORMATION:
APPLICANT: Bandman, Olga
APPLICANT: Goli, Surya K.
TITLE OF INVENTION: NOVEL RNA EDITING ENZYME
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/816,241
FILING DATE: Filed Herewith
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0239 US
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 190 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: PROSTUT09
CLONE: 1646823

Query Match 41.7%; Score 42.5; DB 1; Length 190;
Best Local Similarity 28.6%; Pred. No. 62;
Matches 8; Conservative 2; Mismatches 3; Indels 15; Gaps 1;

Qy 2 WVCNLFKNQ-----WFCD 14
Db 50 WKTGVFRNQVDSETHCHAERCFLSWFCD 77

RESULT 15

US-09-128-395-1
Sequence 1, Application US/09128395
Patent No. 6087108
GENERAL INFORMATION:
APPLICANT: Bandman, Olga
APPLICANT: Goli, Surya K.

TITLE OF INVENTION: NOVEL RNA EDITING ENZYME
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/128,395
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/816,241
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0239 US
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 190 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: PROSTUT09
CLONE: 1646823
US-09-128-395-1

Query Match 41.7%; Score 42.5; DB 3; Length 190;
Best Local Similarity 28.6%; Pred. No. 62;
Matches 8; Conservative 2; Mismatches 3; Indels 15; Gaps 1;

Qy 2 WVCNLFKNQ-----WFCD 14
Db 50 WKTGVFRNQVDSETHCHAERCFLSWFCD 77

Search completed: September 8, 2004, 12:58:37
Job time : 12.2 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 12:53:30 ; Search time 44.3 Seconds
(without alignments)
113.793 Million cell updates/sec

Title: US-09-825-517A-123
Perfect score: 102
Sequence: 1 DWCEFIKQWYCDLA 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues
Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA.*

```
1: /cgn2_6/ptodata/1/pubaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/1/pubaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubaa/US09A_PUBCOMB.pep.*
13: /cgn2_6/ptodata/1/pubaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/1/pubaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/1/pubaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/1/pubaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/1/pubaa/US60_PUBCOMB.pep.*
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----|--------------------|
| 1 | 102 | 100.0 | 16 | 11 | US-09-825-517A-123 |
| 2 | 83 | 81.4 | 16 | 11 | US-09-825-517A-150 |
| 3 | 81 | 79.4 | 16 | 11 | US-09-825-517A-137 |
| 4 | 80 | 78.4 | 16 | 11 | US-09-825-517A-147 |
| 5 | 78 | 76.5 | 16 | 11 | US-09-825-517A-86 |
| 6 | 78 | 76.5 | 16 | 11 | US-09-825-517A-109 |
| 7 | 77 | 75.5 | 16 | 11 | US-09-825-517A-76 |
| 8 | 77 | 75.5 | 16 | 11 | US-09-825-517A-80 |
| 9 | 76 | 74.5 | 16 | 11 | US-09-825-517A-65 |
| 10 | 76 | 74.5 | 16 | 11 | US-09-825-517A-75 |
| 11 | 75 | 73.5 | 16 | 11 | US-09-825-517A-48 |
| 12 | 75 | 73.5 | 16 | 11 | US-09-825-517A-78 |
| 13 | 75 | 73.5 | 16 | 11 | US-09-825-517A-144 |
| 14 | 75 | 73.5 | 16 | 11 | US-09-825-517A-145 |
| 15 | 74 | 72.5 | 16 | 11 | US-09-825-517A-38 |

| | | | | | | |
|----|----|------|----|----|--------------------|--------------------|
| 16 | 74 | 72.5 | 16 | 11 | US-09-825-517A-59 | Sequence 59, Appl |
| 17 | 74 | 72.5 | 16 | 11 | US-09-825-517A-93 | Sequence 93, Appl |
| 18 | 74 | 72.5 | 16 | 11 | US-09-825-517A-114 | Sequence 114, Appl |
| 19 | 73 | 71.6 | 16 | 11 | US-09-825-517A-116 | Sequence 116, Appl |
| 20 | 73 | 71.6 | 16 | 11 | US-09-825-517A-126 | Sequence 126, Appl |
| 21 | 73 | 71.6 | 16 | 11 | US-09-825-517A-127 | Sequence 127, Appl |
| 22 | 72 | 70.6 | 16 | 11 | US-09-825-517A-82 | Sequence 82, Appl |
| 23 | 72 | 70.6 | 16 | 11 | US-09-825-517A-104 | Sequence 104, Appl |
| 24 | 72 | 70.6 | 16 | 11 | US-09-825-517A-146 | Sequence 146, Appl |
| 25 | 71 | 69.6 | 16 | 11 | US-09-825-517A-37 | Sequence 37, Appl |
| 26 | 71 | 69.6 | 16 | 11 | US-09-825-517A-42 | Sequence 42, Appl |
| 27 | 71 | 69.6 | 16 | 11 | US-09-825-517A-45 | Sequence 45, Appl |
| 28 | 71 | 69.6 | 16 | 11 | US-09-825-517A-52 | Sequence 52, Appl |
| 29 | 71 | 69.6 | 16 | 11 | US-09-825-517A-58 | Sequence 58, Appl |
| 30 | 71 | 69.6 | 16 | 11 | US-09-825-517A-62 | Sequence 62, Appl |
| 31 | 71 | 69.6 | 16 | 11 | US-09-825-517A-67 | Sequence 67, Appl |
| 32 | 71 | 69.6 | 16 | 11 | US-09-825-517A-74 | Sequence 74, Appl |
| 33 | 71 | 69.6 | 16 | 11 | US-09-825-517A-120 | Sequence 120, Appl |
| 34 | 71 | 69.6 | 16 | 11 | US-09-825-517A-121 | Sequence 121, Appl |
| 35 | 71 | 69.6 | 16 | 11 | US-09-825-517A-144 | Sequence 144, Appl |
| 36 | 71 | 69.6 | 16 | 11 | US-09-825-517A-148 | Sequence 148, Appl |
| 37 | 71 | 69.6 | 16 | 11 | US-09-825-517A-139 | Sequence 139, Appl |
| 38 | 71 | 69.6 | 16 | 11 | US-09-825-517A-49 | Sequence 49, Appl |
| 39 | 70 | 68.6 | 16 | 11 | US-09-825-517A-53 | Sequence 53, Appl |
| 40 | 70 | 68.6 | 16 | 11 | US-09-825-517A-73 | Sequence 73, Appl |
| 41 | 70 | 68.6 | 16 | 11 | US-09-825-517A-77 | Sequence 77, Appl |
| 42 | 70 | 68.6 | 16 | 11 | US-09-825-517A-81 | Sequence 81, Appl |
| 43 | 70 | 68.6 | 16 | 11 | US-09-825-517A-83 | Sequence 83, Appl |
| 44 | 70 | 68.6 | 16 | 11 | US-09-825-517A-100 | Sequence 100, Appl |
| 45 | 70 | 68.6 | 16 | 11 | US-09-825-517A-100 | Sequence 100, Appl |

ALIGNMENTS

```
RESULT 1
US-09-825-517A-123
; Sequence 123, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 123
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-123
```

Query Match 100.0% Score 102; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.3e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWCEFIKQWYCDLA 16
|||||
Db 1 DWCEFIKQWYCDLA 16

RESULT 2
US-09-825-517A-150
; Sequence 150, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

```

; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US/09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 150
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-150

```

```

Query Match      81.4%; Score 83; DB 11; Length 16;
Best Local Similarity 73.3%; Pred. No. 5.9e-05;
Matches 11; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

```

```

Qy 1 DWVCEFIKQWYCDL 15
    ||||| ||||| ::
Db 1 DWVCEFFKQWFCNI 15

```

```

RESULT 3
US-09-825-517A-137
; Sequence 137, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US/09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 137
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-137

```

```

Query Match      79.4%; Score 81; DB 11; Length 16;
Best Local Similarity 73.3%; Pred. No. 0.00011;
Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

```

```

Qy 1 DWVCEFIKQWYCDL 15
    ||||| ||||| ::
Db 1 DWVCEFFKQWYCN 15

```

```

RESULT 4
US-09-825-517A-147
; Sequence 147, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24

```

```

; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 147
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-147

```

```

Query Match      78.4%; Score 80; DB 11; Length 16;
Best Local Similarity 73.3%; Pred. No. 0.00016;
Matches 11; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

```

```

Qy 1 DWVCEFIKQWYCDL 15
    ||||| ||||| ::
Db 1 DWVCEFFKQWFCNV 15

```

```

RESULT 5
US-09-825-517A-86
; Sequence 86, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 86
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-86

```

```

Query Match      76.5%; Score 78; DB 11; Length 16;
Best Local Similarity 73.3%; Pred. No. 0.0003;
Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

```

```

Qy 1 DWVCEFIKQWYCDL 15
    ||||| ||||| ::
Db 1 DWVCEFFKQWFCNL 15

```

```

RESULT 6
US-09-825-517A-109
; Sequence 109, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 109
; LENGTH: 16
; TYPE: PRT

```

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-109

Query Match          76.5%; Score 78; DB 11; Length 16;
Best Local Similarity 71.4%; Pred. No. 0.0003;
Matches 10; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEFIKQWYCDL 14
   |||||:|:|:|
Db 1 DWVCEYFKQWFCDD 14

RESULT 7
US-09-825-517A-76
; Sequence 76, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 76
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-76

Query Match          75.5%; Score 77; DB 11; Length 16;
Best Local Similarity 73.3%; Pred. No. 0.00041;
Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFIKQWYCDL 15
   |||||:|:|:|
Db 1 DWVCEFFKQWQSCNV 15

RESULT 8
US-09-825-517A-80
; Sequence 80, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 80
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-80

Query Match          75.5%; Score 77; DB 11; Length 16;
Best Local Similarity 73.3%; Pred. No. 0.00041;
```

```
Matches 11; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEFIKQWYCDL 15
   |||||:|:|:|
Db 1 DWVCEFIKQWQSCNV 15

RESULT 9
US-09-825-517A-65
; Sequence 65, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 65
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-65

Query Match          74.5%; Score 76; DB 11; Length 16;
Best Local Similarity 66.7%; Pred. No. 0.00056;
Matches 10; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFIKQWYCDL 15
   |||||:|:|:|
Db 1 DWVCELVKQWYCNV 15

RESULT 10
US-09-825-517A-75
; Sequence 75, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 75
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-75

Query Match          74.5%; Score 76; DB 11; Length 16;
Best Local Similarity 66.7%; Pred. No. 0.00056;
Matches 10; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFIKQWYCDL 15
   |||||:|:|:|
Db 1 DWVCEFFKQWQSCNV 15
```

```

RESULT 11
US-09-825-517A-48
; Sequence 48, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 48
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-48

Query Match      73.5%; Score 75; DB 11; Length 16;
Best Local Similarity 56.2%; Pred. No. 0.00078;
Matches 9; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEFIKDQWYCDLA 16
   |||||:||||:|
Db 1 DWICNLFKNQWFCDMA 16

RESULT 12
US-09-825-517A-78
; Sequence 78, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 78
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-78

Query Match      73.5%; Score 75; DB 11; Length 16;
Best Local Similarity 71.4%; Pred. No. 0.00078;
Matches 10; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEFIKDQWYCDLA 14
   |||||:||||:|
Db 1 DWVCEFMKQWFCN 14

RESULT 13
US-09-825-517A-144
; Sequence 144, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C

```

```

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 144
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-144

Query Match      73.5%; Score 75; DB 11; Length 16;
Best Local Similarity 71.4%; Pred. No. 0.00078;
Matches 10; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEFIKDQWYCD 14
   |||||:||||:|
Db 1 DWVCEWLKPQWYCN 14

RESULT 14
US-09-825-517A-145
; Sequence 145, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 145
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-145

Query Match      73.5%; Score 75; DB 11; Length 16;
Best Local Similarity 62.5%; Pred. No. 0.00078;
Matches 10; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEFIKDQWYCDLA 16
   |||||:||||:|
Db 1 DWVCELFKNQWFCDL 16

RESULT 15
US-09-825-517A-38
; Sequence 38, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 38
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-38

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Query Match 72.5%; Score 74; DB 11; Length 16;
Best Local Similarity 66.7%; Pred. No. 0.0011;
Matches 10; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Query Match 72.5%; Score 74; DB 11; Length 16;

Best Local Similarity 66.7%; Pred. No. 0.0011;
Matches 10; Consecutive 2; Mismatches 2; Indexes

| | | | | | | | | | |
|---------|-----|--------------|----|------------|----|--------|----|------|----|
| Matches | 10; | Conservative | 2; | Mismatches | 3; | Indels | 0; | Gaps | 0; |
|---------|-----|--------------|----|------------|----|--------|----|------|----|

BEST LOCAL SIMILARITY 80.7%, FREQ. NO. 0.0011,
Matches 10; Conservative 2; Mismatches 3; Indels

[illegible]

1 DWVCNLEFKNOWFCDL 15

Search completed: September 8, 2004, 14:25:08
Job time : 45.3 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:51:54 ; Search time 12.2 Seconds
(without alignments)
67.706 Million cell updates/sec

Title: US-09-825-517A-123
Perfect score: 102
Sequence: 1 DWCEFIKQWYCDLA 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*

1: /cgn2_6/prodata/2/iaa/5A COMB.pep.*
2: /cgn2_6/prodata/2/iaa/5B COMB.pep.*
3: /cgn2_6/prodata/2/iaa/6A COMB.pep.*
4: /cgn2_6/prodata/2/iaa/6B COMB.pep.*
5: /cgn2_6/prodata/2/iaa/PCUS COMB.pep.*
6: /cgn2_6/prodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----|---------------------|
| 1 | 45 | 45.1 | 480 | 2 | US-08-828-488-8 |
| 2 | 46 | 45.1 | 480 | 4 | US-09-239-689A-8 |
| 3 | 46 | 45.1 | 480 | 4 | US-09-702-705-336 |
| 4 | 46 | 45.1 | 480 | 4 | US-09-736-457-336 |
| 5 | 46 | 45.1 | 480 | 4 | US-09-614-124B-336 |
| 6 | 46 | 45.1 | 480 | 4 | US-09-671-325-336 |
| 7 | 46 | 45.1 | 480 | 4 | US-09-589-184-336 |
| 8 | 45 | 44.1 | 272 | 4 | US-09-328-352-6959 |
| 9 | 44 | 43.1 | 380 | 4 | US-09-489-039A-8153 |
| 10 | 42 | 41.2 | 1621 | 1 | US-08-242-677-2 |
| 11 | 41 | 40.2 | 20 | 2 | US-07-894-063A-6 |
| 12 | 41 | 40.2 | 30 | 1 | US-08-262-037-16 |
| 13 | 41 | 40.2 | 38 | 1 | US-08-262-037-95 |
| 14 | 41 | 40.2 | 47 | 1 | US-08-262-037-96 |
| 15 | 41 | 40.2 | 106 | 3 | US-08-444-818-24 |
| 16 | 41 | 40.2 | 120 | 3 | US-08-347-492B-2 |
| 17 | 41 | 40.2 | 120 | 2 | US-08-798-143-2 |
| 18 | 41 | 40.2 | 120 | 5 | PCT-US95-15484-2 |
| 19 | 41 | 40.2 | 136 | 5 | PCT-US95-07171-2 |
| 20 | 41 | 40.2 | 176 | 3 | US-08-444-818-28 |
| 21 | 41 | 40.2 | 191 | 5 | PCT-US95-07171-3 |
| 22 | 41 | 40.2 | 360 | 4 | US-08-850-328-4 |
| 23 | 41 | 40.2 | 489 | 4 | US-09-547-435-4 |
| 24 | 41 | 40.2 | 516 | 3 | US-08-867-611-6 |
| 25 | 41 | 40.2 | 516 | 3 | US-09-690-359-6 |
| 26 | 41 | 40.2 | 516 | 5 | PCT-US92-06965A-11 |
| 27 | 41 | 40.2 | 604 | 4 | US-09-820-809-13 |

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|----|----|------|------|---|-------------------|
| 28 | 41 | 40.2 | 615 | 4 | US-09-547-435-10 |
| 29 | 41 | 40.2 | 645 | 4 | US-09-547-435-26 |
| 30 | 41 | 40.2 | 701 | 3 | US-09-087-727-2 |
| 31 | 41 | 40.2 | 701 | 4 | US-09-853-053-2 |
| 32 | 41 | 40.2 | 711 | 4 | US-09-547-435-2 |
| 33 | 41 | 40.2 | 771 | 4 | US-09-547-435-28 |
| 34 | 41 | 40.2 | 798 | 3 | US-08-867-611-36 |
| 35 | 41 | 40.2 | 798 | 4 | US-09-690-359-36 |
| 36 | 41 | 40.2 | 859 | 3 | US-08-444-818-30 |
| 37 | 41 | 40.2 | 867 | 4 | US-09-547-435-24 |
| 38 | 41 | 40.2 | 906 | 5 | PCT-US91-09422-17 |
| 39 | 41 | 40.2 | 912 | 3 | US-08-617-785-2 |
| 40 | 41 | 40.2 | 912 | 3 | US-09-641-318-2 |
| 41 | 41 | 40.2 | 912 | 4 | US-09-817-464-2 |
| 42 | 41 | 40.2 | 912 | 5 | PCT-US91-09422-19 |
| 43 | 41 | 40.2 | 1040 | 4 | US-10-104-966-9 |
| 44 | 41 | 40.2 | 1056 | 2 | US-08-687-289A-7 |
| 45 | 41 | 40.2 | 1056 | 4 | US-09-435-897-7 |

ALIGNMENTS

RESULT 1
US-08-828-488-8
; Sequence 8, Application US/08828488
; Patent No. 5925521
; GENERAL INFORMATION:

; APPLICANT: Bandman, Olga
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL HUMAN SERINE
; TITLE OF INVENTION: CARBOXYPEPTIDASE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/828,488
; FILING DATE: Filed Herewith
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0241 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 480 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 190283
US-08-828-488-8

Query Match 45.1%; Score 46; DB 2; Length 480;

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Best Local Similarity 42.9%; Pred. No. 30;
Matches 6; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

Qy 1 DWVCEFIKDQWYCD 14
Db 400 DMACNFMGDEWFDV 413

RESULT 2
US-09-299-689A-8
; Sequence 8, Application US/09299689A
; Patent No. 6379913
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL HUMAN SERINE
; TITLE OF INVENTION: CARBOXYPEPTIDASE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESS: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/299,689A
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/828,488
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0241 US
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 480 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 190283
US-09-299-689A-8

Query Match 45.1%; Score 46; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 30;
Matches 6; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

Qy 1 DWVCEFIKDQWYCD 14
Db 400 DMACNFMGDEWFDV 413

RESULT 3
US-09-702-705-336
; Sequence 336, Application US/09702705
; Patent No. 6504010
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.

Best Local Similarity 42.9%; Pred. No. 30;
Matches 6; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

Qy 1 DWVCEFIKDQWYCD 14
Db 400 DMACNFMGDEWFDV 413

RESULT 4
US-09-736-457-336
; Sequence 336, Application US/09736457
; Patent No. 8509448
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; APPLICANT: Wang, Aijun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C15
; CURRENT APPLICATION NUMBER: US/09/736,457
; CURRENT FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 1864
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-736-457-336

Query Match 45.1%; Score 46; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 30;
Matches 6; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

Qy 1 DWVCEFIKDQWYCD 14
Db 400 DMACNFMGDEWFDV 413

RESULT 5
US-09-614-124B-336
; Sequence 336, Application US/09614124B
; Patent No. 6630574
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
```

; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C9
; CURRENT APPLICATION NUMBER: US/09/614,124B
; CURRENT FILING DATE: 2001-07-11
; NUMBER OF SEQ ID NOS: 1668
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-614-124B-336

Query Match 45.1%; Score 46; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 30;
Matches 6; Conservative 3; Mismatches 5; Indels 5; Gaps 0;

QY 1 DWVCEFIKQWYCD 14
| | | | |
Db 400 DMACNFMGDEWFDV 413

RESULT 6
US-09-671-325-336
; Sequence 336, Application US/09671325
; Patent No. 6667154
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C12
; CURRENT APPLICATION NUMBER: US/09/671,325
; CURRENT FILING DATE: 2000-09-26
; NUMBER OF SEQ ID NOS: 1825
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-671-325-336

Query Match 45.1%; Score 46; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 30;
Matches 6; Conservative 3; Mismatches 5; Indels 5; Gaps 0;

QY 1 DWVCEFIKQWYCD 14
| | | | |
Db 400 DMACNFMGDEWFDV 413

RESULT 7
US-09-589-184-336
; Sequence 336, Application US/09589184
; Patent No. 6686447
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary

; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C8
; CURRENT APPLICATION NUMBER: US/09/589,184
; CURRENT FILING DATE: 2000-06-05
; NUMBER OF SEQ ID NOS: 827
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-589-184-336

Query Match 45.1%; Score 46; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 30;
Matches 6; Conservative 3; Mismatches 5; Indels 5; Gaps 0;

QY 1 DWVCEFIKQWYCD 14
| | | | |
Db 400 DMACNFMGDEWFDV 413

RESULT 8
US-09-328-352-6959
; Sequence 6959, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: GTC99-03PA
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 6959
; LENGTH: 272
; TYPE: PRT
; ORGANISM: Acinetobacter baumannii
US-09-328-352-6959

Query Match 44.1%; Score 45; DB 4; Length 272;
Best Local Similarity 50.0%; Pred. No. 24;
Matches 6; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 2 WVCEFIKQWYC 13
| | | | |
Db 212 WAEVFLDNQWYC 223

RESULT 9
US-09-489-039A-8153
; Sequence 8153, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 8153
; LENGTH: 380
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-8153

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Query Match      43.1%; Score 44; DB 4; Length 380;
Best Local Similarity 53.8%; Pred. No. 47;
Matches 7; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY      3 VCEFIKQWYCDL 15
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Db      8 LCYFINSWYFDL 20
       1 :||| |||

RESULT 10
US-08-242-677-2
; Sequence 2, Application US/08242677
; Patent No. 5677143
; GENERAL INFORMATION:
; APPLICANT: Gaynor, Richard B
; APPLICANT: Wu, Poon W.
; TITLE OF INVENTION: Cellular Nucleic Acid Binding Protein
; TITLE OF INVENTION: and Uses Thereof in regulating Gene Expression and in the
; TITLE OF INVENTION: treatment of AIDS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/242,677
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Mayfield, Denise L.
; REGISTRATION NUMBER: 33,732
; REFERENCE/DOCKET NUMBER: UTSD:401
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713-787-1400
; TELEFAX: 713-789-2679
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1621 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-242-677-2

Query Match      41.2%; Score 42; DB 1; Length 1621;
Best Local Similarity 54.5%; Pred. No. 4,2e+02;
Matches 6; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY      3 VCEFIKQWYVC 13
       1 :||| |||
Db      885 VAQYIHQWYVC 895
       1 :||| |||

RESULT 11
US-07-894-063A-6
; Sequence 6, Application US/07894063A
; Patent No. 5980899
; GENERAL INFORMATION:
; APPLICANT: BERZORSKY, Jay A.
; APPLICANT: SHIRAI, Mutsunori
; APPLICANT: AKATSUKA, Toshitaka
; APPLICANT: FEINSTONE, Stephen M.
; TITLE OF INVENTION: PEPTIDE FOR STIMULATION OF CYTOTOXIC T
; TITLE OF INVENTION: LYMPHOCYTES SPECIFIC FOR HEPATITIS C VIRUS IN A MAMMAL
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:

```

```

; ADDRESSEE: Foley & Lardner
; STREET: 1800 Diagonal Road, Suite 500
; CITY: Alexandria
; STATE: VA
; COUNTRY: USA
; ZIP: 22313-0299
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/894,063A
; FILING DATE: 19920610
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: BENT, Stephen A.
; REGISTRATION NUMBER: 29,768
; REFERENCE/DOCKET NUMBER: 40399/162/NIHD
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)836-9300
; TELEFAX: (703)683-4109
; TELEX: 899149
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
US-07-894-063A-6

Query Match      40.2%; Score 41; DB 2; Length 20;
Best Local Similarity 55.6%; Pred. No. 6.4;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      1 DWVCEFIKD 9
       1 :||| :|
Db      2 DWICEVLSD 10
       1 :||| :|

RESULT 12
US-08-262-037-16
; Sequence 16, Application US/08262037
; Patent No. 5747239
; GENERAL INFORMATION:
; APPLICANT: Chang Yi Wang and Barbara Hosein
; TITLE OF INVENTION: SYNTHETIC PEPTIDES SPECIFIC FOR
; TITLE OF INVENTION: THE DETECTION OF ANTIBODIES TO HCV, DIAGNOSIS OF HCV
; TITLE OF INVENTION: INFECTION AND PREVENTION THEREOF AS VACCINES
; NUMBER OF SEQUENCES: 136
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVE.
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/262,037
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/719,819
; FILING DATE: 24-June-1991
; APPLICATION NUMBER: 07/667,275
; FILING DATE: 11-Mar-1991
; APPLICATION NUMBER: 07/651,735
; FILING DATE: 07-Feb-1991
; APPLICATION NUMBER: 07/558,799

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;
; FILING DATE: 26-July-1990
; APPLICATION NUMBER: 07/510,153
; FILING DATE: 16-April-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Maria C. H. Lin
; REGISTRATION NUMBER: 29,323
; REFERENCE/DOCKET NUMBER: 1151-4043 US3
; TELEPHONE: 212-758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 amino acids
; TYPE: Amino acid
; STRANDEDNESS:
; TOPOLOGY: Unknown
;
US-08-262-037-16

Query Match 40.2%; Score 41; DB 1; Length 30;
Best Local Similarity 55.6%; Pred. No. 9.7;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFIKD 9
DB 9 DWICEVLSD 17

RESULT 13
US-08-262-037-95
; Sequence 95, Application US/08262037
; Patent No. 5747239
; GENERAL INFORMATION:
; APPLICANT: Chang Yi Wang and Barbara Hosein
; TITLE OF INVENTION: SYNTHETIC PEPTIDES SPECIFIC FOR
; TITLE OF INVENTION: THE DETECTION OF ANTIBODIES TO HCV, DIAGNOSIS OF HCV
; TITLE OF INVENTION: INFECTION AND PREVENTION THEREOF AS VACCINES
; NUMBER OF SEQUENCES: 136
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVE.
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/262.037
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/719,819
; FILING DATE: 24-June-1991
; APPLICATION NUMBER: 07/667,275
; FILING DATE: 11-Mar-1991
; APPLICATION NUMBER: 07/651,735
; FILING DATE: 07-Feb-1991
; APPLICATION NUMBER: 07/558,799
; FILING DATE: 26-July-1990
; APPLICATION NUMBER: 07/510,153
; FILING DATE: 16-April-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Maria C. H. Lin
; REGISTRATION NUMBER: 29,323
; REFERENCE/DOCKET NUMBER: 1151-4043 US3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 amino acids
; TYPE: Amino acid
; STRANDEDNESS:
; TOPOLOGY: Unknown
;
US-08-262-037-96
; Sequence 96, Application US/08262037
; Patent No. 5747239
; GENERAL INFORMATION:
; APPLICANT: Chang Yi Wang and Barbara Hosein
; TITLE OF INVENTION: SYNTHETIC PEPTIDES SPECIFIC FOR
; TITLE OF INVENTION: THE DETECTION OF ANTIBODIES TO HCV, DIAGNOSIS OF HCV
; TITLE OF INVENTION: INFECTION AND PREVENTION THEREOF AS VACCINES
; NUMBER OF SEQUENCES: 136
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVE.
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/262,037
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/719,819
; FILING DATE: 24-June-1991
; APPLICATION NUMBER: 07/667,275
; FILING DATE: 11-Mar-1991
; APPLICATION NUMBER: 07/651,735
; FILING DATE: 07-Feb-1991
; APPLICATION NUMBER: 07/558,799
; FILING DATE: 26-July-1990
; APPLICATION NUMBER: 07/510,153
; FILING DATE: 16-April-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Maria C. H. Lin
; REGISTRATION NUMBER: 29,323
; REFERENCE/DOCKET NUMBER: 1151-4043 US3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 96:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 47 amino acids
; TYPE: Amino acid
; STRANDEDNESS:
; TOPOLOGY: Unknown
;
US-08-262-037-96

Query Match 40.2%; Score 41; DB 1; Length 47;
Best Local Similarity 55.6%; Pred. No. 15;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
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QY 1 DWVCEFIKD 9
 ||:|:|
 Db 26 DWICEVLSD 34

RESULT 15
 US-08-444-818-24
 ; Sequence 24, Application US/08444818
 ; Patent No. 6150087
 ; GENERAL INFORMATION:
 ; APPLICANT: Chien, David Y.
 ; APPLICANT: Rutter, William J.
 ; TITLE OF INVENTION: NANV Diagnostics and Vaccines
 ; NUMBER OF SEQUENCES: 777
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Chiron Corporation
 ; STREET: 4560 Horton Street
 ; CITY: Emeryville
 ; STATE: CA
 ; COUNTRY: USA
 ; ZIP: 94608-2916
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/444,818
 ; FILING DATE:
 ; CLASSIFICATION: 424
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/403,590
 ; FILING DATE: 14-MAR-1995
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Harbin, Alisa A.
 ; REGISTRATION NUMBER: 33,895
 ; REFERENCE/DOCKET NUMBER: 0110.002
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (508)359-3876
 ; TELEFAX: (508)359-3885
 ; INFORMATION FOR SEQ ID NO: 24:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 106 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-444-818-24

Query Match 40.2%; Score 41; DB 3; Length 106;
 Best Local Similarity 55.6%; Pred. No. 36;
 Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFIKD 9
 ||:|:|
 Db 67 DWICEVLSD 75

Search completed: September 8, 2004, 12:58:37
 Job time : 13.2 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:53:30 ; Search time 44.3 Seconds
(without alignments)
113.793 Million cell updates/sec

Title: US-09-825-517A-122
Perfect score: 103
Sequence: 1 DWCEWLKMQWACNIL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

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|-----|--|
| 1: | /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.* |
| 2: | /cgn2_6/ptodata/1/pubpaa/FCI_NEW_PUB.pep.* |
| 3: | /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.* |
| 4: | /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.* |
| 5: | /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.* |
| 6: | /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.* |
| 7: | /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.* |
| 8: | /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.* |
| 9: | /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.* |
| 10: | /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.* |
| 11: | /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.* |
| 12: | /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.* |
| 13: | /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.* |
| 14: | /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.* |
| 15: | /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep.* |
| 16: | /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.* |
| 17: | /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.* |
| 18: | /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.* |

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|--------------------|
| 1 | 103 | 100.0 | 16 | 11 | US-09-825-517A-112 |
| 2 | 103 | 100.0 | 16 | 11 | US-09-825-517A-122 |
| 3 | 103 | 100.0 | 16 | 11 | US-09-825-517A-140 |
| 4 | 102 | 99.0 | 16 | 11 | US-09-825-517A-125 |
| 5 | 102 | 99.0 | 16 | 11 | US-09-825-517A-142 |
| 6 | 100 | 97.1 | 16 | 11 | US-09-825-517A-54 |
| 7 | 100 | 97.1 | 16 | 11 | US-09-825-517A-138 |
| 8 | 100 | 97.1 | 16 | 11 | US-09-825-517A-143 |
| 9 | 92 | 89.3 | 16 | 11 | US-09-825-517A-49 |
| 10 | 92 | 89.3 | 16 | 11 | US-09-825-517A-141 |
| 11 | 92 | 89.3 | 16 | 11 | US-09-825-517A-151 |
| 12 | 89 | 86.4 | 16 | 11 | US-09-825-517A-101 |
| 13 | 88 | 85.4 | 16 | 11 | US-09-825-517A-126 |
| 14 | 85 | 82.5 | 16 | 11 | US-09-825-517A-115 |
| 15 | 85 | 82.5 | 16 | 11 | US-09-825-517A-146 |

| | | | | | |
|----|----|------|----|----|--------------------|
| 16 | 85 | 82.5 | 16 | 11 | US-09-825-517A-148 |
| 17 | 84 | 81.6 | 16 | 11 | US-09-825-517A-130 |
| 18 | 84 | 81.6 | 16 | 11 | US-09-825-517A-144 |
| 19 | 79 | 76.7 | 16 | 11 | US-09-825-517A-68 |
| 20 | 78 | 75.7 | 16 | 11 | US-09-825-517A-107 |
| 21 | 78 | 75.7 | 16 | 11 | US-09-825-517A-80 |
| 22 | 78 | 75.7 | 16 | 11 | US-09-825-517A-139 |
| 23 | 78 | 75.7 | 16 | 11 | US-09-825-517A-147 |
| 24 | 77 | 74.8 | 16 | 11 | US-09-825-517A-75 |
| 25 | 77 | 74.8 | 16 | 11 | US-09-825-517A-76 |
| 26 | 77 | 74.8 | 16 | 11 | US-09-825-517A-104 |
| 27 | 77 | 74.8 | 16 | 11 | US-09-825-517A-117 |
| 28 | 77 | 74.8 | 16 | 11 | US-09-825-517A-135 |
| 29 | 77 | 74.8 | 16 | 11 | US-09-825-517A-137 |
| 30 | 76 | 73.8 | 16 | 11 | US-09-825-517A-59 |
| 31 | 76 | 73.8 | 16 | 11 | US-09-825-517A-67 |
| 32 | 76 | 73.8 | 16 | 11 | US-09-825-517A-82 |
| 33 | 76 | 73.8 | 16 | 11 | US-09-825-517A-90 |
| 34 | 76 | 73.8 | 16 | 11 | US-09-825-517A-103 |
| 35 | 76 | 73.8 | 16 | 11 | US-09-825-517A-105 |
| 36 | 76 | 73.8 | 16 | 11 | US-09-825-517A-106 |
| 37 | 76 | 73.8 | 16 | 11 | US-09-825-517A-127 |
| 38 | 75 | 72.8 | 16 | 11 | US-09-825-517A-65 |
| 39 | 75 | 72.8 | 16 | 11 | US-09-825-517A-86 |
| 40 | 75 | 72.8 | 16 | 11 | US-09-825-517A-113 |
| 41 | 75 | 72.8 | 16 | 11 | US-09-825-517A-150 |
| 42 | 73 | 70.9 | 16 | 11 | US-09-825-517A-72 |
| 43 | 73 | 70.9 | 16 | 11 | US-09-825-517A-100 |
| 44 | 73 | 70.9 | 16 | 11 | US-09-825-517A-118 |
| 45 | 72 | 69.9 | 16 | 11 | US-09-825-517A-88 |

ALIGNMENTS

RESULT 1
US-09-825-517A-112
; Sequence 112, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Radner, Isaac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 112
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-112

Query Match 100.0%; Score 103; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.9e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWCEWLKMQWACNIL 16
| | | | | | | | | | | | | | | |
Db 1 DWCEWLKMQWACNIL 16

RESULT 2
US-09-825-517A-122
; Sequence 122, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

```
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 122
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
; US-09-825-517A-122
```

```
Query Match 100.0%; Score 103; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.9e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 DWVCEWLKMQWACNVL 16
| | | | | | | | | | | | | | | |
DB 1 DWVCEWLKMQWACNVL 16
```

RESULT 3

```
US-09-825-517A-140
; Sequence 140, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 140
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
; US-09-825-517A-140
```

```
Query Match 100.0%; Score 103; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.9e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 DWVCEWLKMQWACNVL 16
| | | | | | | | | | | | | | | |
DB 1 DWVCEWLKMQWACNVL 16
```

RESULT 4

```
US-09-825-517A-125
; Sequence 125, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
```

```
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 125
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
; US-09-825-517A-125
```

```
Query Match 99.0%; Score 102; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 5.3e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
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```
QY 1 DWVCEWLKMQWACNVL 16
| | | | | | | | | | | | | | | |
DB 1 DWVCEWLKMQWACNVL 16
```

RESULT 5

```
US-09-825-517A-142
; Sequence 142, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 142
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
; US-09-825-517A-142
```

```
Query Match 99.0%; Score 102; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 5.3e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 DWVCEWLKMQWACNVL 16
| | | | | | | | | | | | | | | |
DB 1 DWVCEWLKMQWACNVL 16
```

RESULT 6

```
US-09-825-517A-54
; Sequence 54, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 54
; LENGTH: 16
; TYPE: PRT
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```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-54

Query Match          97.1%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 9.9e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNII 16
   |||||
Db 1 DWVCEWLKMQWACNML 16

RESULT 7
US-09-825-517A-138
; Sequence 138, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 138
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-138

Query Match          97.1%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 9.9e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNII 16
   |||||
Db 1 DWVCEWLKMQWACNML 16

RESULT 8
US-09-825-517A-143
; Sequence 143, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 143
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-143

Query Match          97.1%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 9.9e-07;
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Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNII 16
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Db 1 DWVCEWLKMQWACNML 16

RESULT 9
US-09-825-517A-49
; Sequence 49, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 49
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-49

Query Match          89.3%; Score 92; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.1e-05;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNII 16
   |||||
Db 1 DWVCEFLKMQWACNVL 16

RESULT 10
US-09-825-517A-141
; Sequence 141, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 141
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-141

Query Match          89.3%; Score 92; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.1e-05;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNII 16
   |||||
Db 1 DWVCEWLKMQWFCNAL 16
```

```

RESULT 11
US-09-825-517A-151
; Sequence 151, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 151
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-151

Query Match      89.3%; Score 92; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.1e-05;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNVL 16
Db 1 DWVCEFLKMQWACNVL 16

RESULT 12
US-09-825-517A-101
; Sequence 101, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 101
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-101

Query Match      86.4%; Score 89; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.8e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNVL 16
Db 1 DWVCEWFKMQWACNVL 16

RESULT 13
US-09-825-517A-126
; Sequence 126, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C

```

```

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 126
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-126

Query Match      85.4%; Score 88; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 3.9e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNVL 16
Db 1 DWVCEWLKMQWACNVL 16

RESULT 14
US-09-825-517A-115
; Sequence 115, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 115
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-115

Query Match      82.5%; Score 85; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 9.7e-05;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNVL 16
Db 1 DWVCEWFKMQWACNVL 16

RESULT 15
US-09-825-517A-146
; Sequence 146, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03

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; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 146
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-146
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```
Query Match      82.5%; Score 85; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 9.7e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
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QY      1 DWVCEWLKMQWACNIL 16
         |||||
Db       1 DWVCEWLKQWFCNSL 16
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Search completed: September 8, 2004, 14:25:07
Job time : 44.3 secs
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 12:51:54 ; Search time 12.2 Seconds
(without alignments)
67.706 Million cell updates/sec

Title: US-09-825-517A-122

Sequence: 1 DWVCEWLKQWACNIL 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.*

1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep.*

2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep.*

3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep.*

4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep.*

5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep.*

6: /cgn2_6/ptodata/2/iaa/backfiles.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|----------------------|
| 1 | 46 | 44.7 | 677 | 3 | US-09-061-768A-4 |
| 2 | 46 | 44.7 | 677 | 4 | US-09-764-246-4 |
| 3 | 45 | 43.7 | 711 | 4 | US-03-621-976-5666 |
| 4 | 45 | 43.2 | 1129 | 4 | US-09-252-991A-28552 |
| 5 | 44.5 | 43.2 | 491 | 1 | US-09-640-305-4 |
| 6 | 44.5 | 43.2 | 491 | 1 | US-08-360-673-4 |
| 7 | 44 | 42.7 | 89 | 4 | US-09-621-976-7155 |
| 8 | 44 | 42.7 | 423 | 3 | US-08-943-714-9 |
| 9 | 43 | 41.7 | 428 | 4 | US-09-489-039A-12688 |
| 10 | 42 | 40.8 | 21 | 4 | US-09-337-227C-27 |
| 11 | 42 | 40.8 | 21 | 4 | US-09-723-251A-27 |
| 12 | 42 | 40.8 | 393 | 1 | US-08-689-974-4 |
| 13 | 42 | 40.8 | 393 | 3 | US-09-058-376-4 |
| 14 | 42 | 40.8 | 501 | 2 | US-08-288-508C-2 |
| 15 | 42 | 40.8 | 501 | 4 | US-08-981-490B-1 |
| 16 | 41 | 39.8 | 63 | 4 | US-09-497-491-47 |
| 17 | 41 | 39.8 | 170 | 4 | US-09-252-991A-21369 |
| 18 | 41 | 39.8 | 208 | 4 | US-09-252-991A-32166 |
| 19 | 41 | 39.8 | 382 | 4 | US-09-252-991A-25095 |
| 20 | 41 | 39.8 | 1956 | 3 | US-08-843-417-10 |
| 21 | 41 | 39.8 | 1956 | 4 | US-09-527-013-10 |
| 22 | 40.5 | 39.3 | 20 | 2 | US-07-894-063A-6 |
| 23 | 40.5 | 39.3 | 30 | 1 | US-08-262-037-16 |
| 24 | 40.5 | 39.3 | 38 | 1 | US-08-262-037-95 |
| 25 | 40.5 | 39.3 | 47 | 1 | US-08-262-037-96 |
| 26 | 40.5 | 39.3 | 106 | 3 | US-08-444-818-24 |
| 27 | 40.5 | 39.3 | 176 | 3 | US-08-444-818-28 |

28 40.5 39.3 360 4 US-08-850-328-4 Sequence 4, Appli
29 40.5 39.3 516 3 US-08-867-611-6 Sequence 6, Appli
30 40.5 39.3 516 4 US-09-690-359-6 Sequence 6, Appli
31 40.5 39.3 516 5 PCT-US92-06965A-11 Sequence 11, Appli
32 40.5 39.3 798 3 US-08-867-611-36 Sequence 36, Appli
33 40.5 39.3 798 4 US-09-690-359-36 Sequence 36, Appli
34 40.5 39.3 859 3 US-08-444-818-30 Sequence 30, Appli
35 40.5 39.3 1040 4 US-10-104-966-9 Sequence 9, Appli
36 40.5 39.3 1786 3 US-08-444-818-54 Sequence 54, Appli
37 40.5 39.3 2261 3 US-08-444-818-66 Sequence 66, Appli
38 40.5 39.3 2436 3 US-08-444-818-75 Sequence 75, Appli
39 40.5 39.3 2772 3 US-08-444-818-89 Sequence 89, Appli
40 40.5 39.3 2894 2 US-08-466-975A-23 Sequence 23, Appli
41 40.5 39.3 2894 2 US-08-391-671A-23 Sequence 23, Appli
42 40.5 39.3 2894 3 US-08-467-902A-23 Sequence 23, Appli
43 40.5 39.3 2894 3 US-09-275-265-23 Sequence 23, Appli
44 40.5 39.3 2894 4 US-09-941-611-23 Sequence 23, Appli
45 40.5 39.3 2955 2 US-08-443-260-3 Sequence 3, Appli

ALIGNMENTS

RESULT 1
; Sequence 4, Application US/09061768A
; Patent No. 6204037
; GENERAL INFORMATION:
; APPLICANT: BRASH, ALAN R.
; APPLICANT: BOEGLIN, WILLIAM E.
; APPLICANT: JISAKA, MITSUO
; TITLE OF INVENTION: LIPOXYGENASE PROTEINS AND NUCLEIC ACIDS
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARLES A. TAYLOR, JR.
; STREET: SUITE 1400, UNIVERSITY TOWER, 3100 TOWER BOULEVARD
; CITY: DURHAM
; STATE: NORTH CAROLINA
; COUNTRY: USA
; ZIP: 27707
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4 MB storage
; COMPUTER: IBM PC/XT/AT compatible
; OPERATING SYSTEM: Windows 3.1
; SOFTWARE: WORD PERFECT 6.1 and ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/061,768A
; FILING DATE: APRIL 16, 1998
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA: NONE
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: ARLES A. TAYLOR, JR.
; REGISTRATION NUMBER: 39,395
; REFERENCE/DOCKET NUMBER: 1242/5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (919) 493-8000
; TELEFAX: (919) 419-0383
; TELEX:
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 677 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: unknown
US-09-061-768A-4

Query Match 44.7%; Score 46; DB 3; Length 677;
Best Local Similarity 40.0%; Pred. No. 46;
Matches 4; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 2 WVCEWLKQW 11


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; APPLICATION NUMBER: US/09/640,305
; FILING DATE: 16-AUG-2000
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/360,673
; FILING DATE: 06-FEB-1995
; APPLICATION NUMBER: WO PCT/FR93/00623
; FILING DATE: 23-JUN-1993
; APPLICATION NUMBER: FR 92/07785
; FILING DATE: 25-JUN-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Smith, Julie K.
; REGISTRATION NUMBER: 38,619
; REFERENCE/DOCKET NUMBER: ST92040-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (610)454-3839
; TELEFAX: (610)454-3808
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-640-305-4

Query Match      43.2%; Score 44.5; DB 1; Length 491;
Best Local Similarity 33.3%; Pred. No. 55;
Matches 7; Conservative 4; Mismatches 3; Indels 7; Gaps 1;

QY      1 DWCEWL-----KMQWACN 14
      |::||| |::|||
Db      405 DYICNWLGNLAWTEKLEWRYN 425

RESULT 6
US-08-360-673-4
; Sequence 4, Application US/08360673
; Patent No. 5679544
; GENERAL INFORMATION:
; APPLICANT: Fleer, Reinhard
; APPLICANT: Fournier, Alain
; APPLICANT: Yeh, Patrice
; TITLE OF INVENTION: MODIFIED KLUYVEROMYCES YEASTS, THEIR
; PREPARATION AND USE
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Rhone-Poulenc Rorer Inc.
; STREET: 500 Arcola Rd. 3C43
; CITY: Collegeville
; STATE: PA
; COUNTRY: USA
; ZIP: 19002
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/360,673
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO PCT/FR93/00623
; FILING DATE: 23-JUN-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: FR 92/07785
; FILING DATE: 25-JUN-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Smith, Julie K.
; REGISTRATION NUMBER: 38,619
; REFERENCE/DOCKET NUMBER: ST92040-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (610)454-3839
```

```
; TELEFAX: (610)454-3808
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 491 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-360-673-4

Query Match      43.2%; Score 44.5; DB 1; Length 491;
Best Local Similarity 33.3%; Pred. No. 55;
Matches 7; Conservative 4; Mismatches 3; Indels 7; Gaps 1;

QY      1 DWCEWL-----KMQWACN 14
      |::||| |::|||
Db      405 DYICNWLGNLAWTEKLEWRYN 425

RESULT 7
US-09-621-976-7155
; Sequence 7155, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 7155
; LENGTH: 89
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-621-976-7155

Query Match      42.7%; Score 44; DB 4; Length 89;
Best Local Similarity 45.5%; Pred. No. 11;
Matches 5; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY      1 DWCEWLKMQW 11
      |::||| |::|||
Db      45 DWLADWWKVGW 55

RESULT 8
US-08-943-714-9
; Sequence 9, Application US/08943714
; Patent No. 6187578
; GENERAL INFORMATION:
; APPLICANT: Blinkovsky, Alexander
; APPLICANT: Berk, Randy
; APPLICANT: Rey, Michael
; APPLICANT: Gollighly, Elizabeth
; APPLICANT: Klotz, Alan
; APPLICANT: Mathisen, Thomas Erik
; APPLICANT: Dambmann, Claus
; TITLE OF INVENTION: Carboxypeptidases And Nucleic Acids
; TITLE OF INVENTION: Encoding Same
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 61875780 No. 6187578disk of No. 6187578th America, Inc.
; STREET: 405 Lexington Avenue
; CITY: New York
; STATE: NY
; COUNTRY: USA
; ZIP: 10174
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
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; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/943,714
; FILING DATE: 03-OCT-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Lambiris, Elias J
; REGISTRATION NUMBER: 33,728
; REFERENCE/DOCKET NUMBER: 4990.200-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-867-0123
; TELEFAX: 212-878-9655
; TELEX:
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 423 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-943-714-9

Query Match 42.7%; Score 44; DB 3; Length 423;
Best Local Similarity 71.4%; Pred. No. 56;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWL 7
Db 340 DWICNWL 346

RESULT 9
US-09-489-039A-12688
; Sequence 12688, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; FILE REFERENCE: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 12688
; LENGTH: 428
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-12688

Query Match 41.7%; Score 43; DB 4; Length 428;
Best Local Similarity 53.8%; Pred. No. 79;
Matches 7; Conservative 2; Mismatches 2; Indels 2; Gaps 1;

Qy 1 DWVCEWLK--MQW 11
Db 110 NWIFEWAKEAQQW 122

RESULT 10
US-09-337-227C-27
; Sequence 27, Application US/09337227C
; Patent No. 6420518
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: PI07IP2.rev
; CURRENT APPLICATION NUMBER: US/09/337,227C
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; CURRENT FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/052,888
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6420518
US-09-337-227C-27

Query Match 40.8%; Score 42; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 4.5;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

Qy 2 WVCEWLKMQWAC 13
Db 3 WVCRAGPLQWLC 14

RESULT 11
US-09-723-251A-27
; Sequence 27, Application US/09723251A
; Patent No. 6608028
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: PI07IP2C1.2Rev
; CURRENT APPLICATION NUMBER: US/09/723,251A
; CURRENT FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: US 09/337,227
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6608028
US-09-723-251A-27

Query Match 40.8%; Score 42; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 4.5;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

Qy 2 WVCEWLKMQWAC 13
Db 3 WVCRAGPLQWLC 14

RESULT 12
US-08-689-974-4
; Sequence 4, Application US/08689974
; Patent No. 5776732
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Murray, Lynn E.
; TITLE OF INVENTION: NOVEL HUMAN INDUCED TUMOR PROTEIN
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
```

```

; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: U.S.
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/689,974
; FILING DATE: Filed Herewith
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0113 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-845-4166
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 393 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 459890
; US-08-689-974-4

```

```

Query Match 40.8%; Score 42; DB 1; Length 393;
Best Local Similarity 41.2%; Pred. No. 1e+02;
Matches 7; Conservative 2; Mismatches 6; Indels 2; Gaps 1;

QY 2 WVCEWLKM--QWACNIL 16
|: ||| | | | | |
Db 360 WLAVFKMGSSWLCLL 376

```

```

RESULT 13
US-09-058-376-4
; Sequence 4, Application US/09058376
; Patent No. 6080841
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Murray, Lynn E.
; TITLE OF INVENTION: NOVEL HUMAN INDUCED TUMOR PROTEIN
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: U.S.
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/058,376
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/689,974
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749

```

```

; REFERENCE/DOCKET NUMBER: PF-0113 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-845-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 393 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 459890
; US-09-058-376-4

Query Match 40.8%; Score 42; DB 3; Length 393;
Best Local Similarity 41.2%; Pred. No. 1e+02;
Matches 7; Conservative 2; Mismatches 6; Indels 2; Gaps 1;

QY 2 WVCEWLKM--QWACNIL 16
|: ||| | | | | |
Db 360 WLAVFKMGSSWLCLL 376

RESULT 14
US-08-288-508C-2
; Sequence 2, Application US/08288508C
; Patent No. 5994094
; GENERAL INFORMATION:
; APPLICANT: H tten, Gertrud
; APPLICANT: Neidhardt, Helge
; APPLICANT: Paulista, Michael
; TITLE OF INVENTION: NEW GROWTH/DIFFERENTIATING FACTOR OF
; TITLE OF INVENTION: THE TGF- FAMILY
; NUMBER OF SEQUENCES: 40
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nikaido, Marmelstein, Murray & Oram LLP
; STREET: 655 Fifteenth Street N.W. Suite 330
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005-5701
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/288,508C
; FILING DATE: 10-AUG-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: DE P 43 26 829.3
; FILING DATE: 10-AUG-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: DE P 44 18 222.8
; FILING DATE: 25-MAY-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: DE P 44 20 157.5
; FILING DATE: 09-JUN-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: JAHNS, Kristina M.
; REGISTRATION NUMBER: P-41,092
; REFERENCE/DOCKET NUMBER: P564-4019
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202)638-5000
; TELEFAX: (202)638-4810
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 501 amino acids
; TYPE: amino acid
; TOPOLOGY: linear

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/ MOLECULE TYPE: protein
US-08-288-508C-2

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Best Local Similarity 33.3%; Pred. NO. 1.3e+02;
Matches 5; Conservative 4; Mismatches 6; Indels 0; Gaps 0;

QY      2 WVCEWLKXMQWACN1L 16
DB      12 WYLAWLDELFICTVL 26
      ||| : : : | : |
      ||| : : : | : |

RESULT 15
US-08-981-490B-1
; Sequence 1, Application US/08981490B
; Patent No. 6531450
; GENERAL INFORMATION:
; APPLICANT: Hotten, Gertrud
; APPLICANT: Pohl, Jens
; APPLICANT: Bechtold, Rolf
; APPLICANT: Paulista, Michael
; APPLICANT: Unsicker, Klaus
; TITLE OF INVENTION: USE OF MP52 OR MP121 FOR TREATING AND PREVENTING DISEASES OF THE
; TITLE OF INVENTION: NERVOUS SYSTEM
; FILE REFERENCE: 100564-07032
; CURRENT APPLICATION NUMBER: US/08/981,490B
; CURRENT FILING DATE: 1998-05-18
; PRIOR APPLICATION NUMBER: PCT/EP96/03065
; PRIOR FILING DATE: 1996-07-12
; PRIOR APPLICATION NUMBER: DE/195 25 416.3
; PRIOR FILING DATE: 1995-07-12
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 501
; TYPE: PRT
; ORGANISM: Homo sapiens
US-08-981-490B-1

Query Match      40.8%; Score 42; DB 4; Length 501;
Best Local Similarity 33.3%; Pred. NO. 1.3e+02;
Matches 5; Conservative 4; Mismatches 6; Indels 0; Gaps 0;

QY      2 WVCEWLKXMQWACN1L 16
DB      12 WYLAWLDELFICTVL 26
      ||| : : : | : |
      ||| : : : | : |

Search completed: September 8, 2004, 12:58:36
Job time : 13.2 secs
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 12:53:30 ; Search time 44.3 Seconds
(without alignments)
113.793 Million cell updates/sec

Title: US-09-825-517A-121
Perfect score: 103
Sequence: 1 DWICNLFKNQWFCDIR 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

1: /cgn2_6/ptodata/1/pubaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubaa/PCR_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubaa/PTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/1/pubaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubaa/US10A_PUBCOMB.pep.*
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18: /cgn2_6/ptodata/1/pubaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|--------------------|
| 1 | 103 | 100.0 | 16 | 11 | US-09-825-517A-45 |
| 2 | 103 | 100.0 | 16 | 11 | US-09-825-517A-121 |
| 3 | 97 | 94.2 | 16 | 11 | US-09-825-517A-62 |
| 4 | 96 | 93.2 | 16 | 11 | US-09-825-517A-42 |
| 5 | 96 | 93.2 | 16 | 11 | US-09-825-517A-52 |
| 6 | 96 | 93.2 | 16 | 11 | US-09-825-517A-58 |
| 7 | 96 | 93.2 | 16 | 11 | US-09-825-517A-74 |
| 8 | 96 | 93.2 | 16 | 11 | US-09-825-517A-120 |
| 9 | 96 | 93.2 | 16 | 11 | US-09-825-517A-124 |
| 10 | 96 | 93.2 | 16 | 11 | US-09-825-517A-129 |
| 11 | 95 | 92.2 | 16 | 11 | US-09-825-517A-38 |
| 12 | 95 | 92.2 | 16 | 11 | US-09-825-517A-48 |
| 13 | 95 | 92.2 | 16 | 11 | US-09-825-517A-132 |
| 14 | 95 | 92.2 | 16 | 11 | US-09-825-517A-145 |
| 15 | 94 | 91.3 | 16 | 11 | US-09-825-517A-39 |

| | | | | | | |
|----|----|------|----|----|--------------------|--------------------|
| 16 | 94 | 91.3 | 16 | 11 | US-09-825-517A-46 | Sequence 46, Appl |
| 17 | 94 | 91.3 | 16 | 11 | US-09-825-517A-47 | Sequence 47, Appl |
| 18 | 94 | 91.3 | 16 | 11 | US-09-825-517A-57 | Sequence 57, Appl |
| 19 | 94 | 91.3 | 16 | 11 | US-09-825-517A-131 | Sequence 131, Appl |
| 20 | 94 | 91.3 | 16 | 11 | US-09-825-517A-134 | Sequence 134, Appl |
| 21 | 93 | 90.3 | 16 | 11 | US-09-825-517A-37 | Sequence 37, Appl |
| 22 | 93 | 90.3 | 16 | 11 | US-09-825-517A-41 | Sequence 41, Appl |
| 23 | 93 | 90.3 | 16 | 11 | US-09-825-517A-53 | Sequence 53, Appl |
| 24 | 93 | 90.3 | 16 | 11 | US-09-825-517A-73 | Sequence 73, Appl |
| 25 | 93 | 90.3 | 16 | 11 | US-09-825-517A-77 | Sequence 77, Appl |
| 26 | 93 | 90.3 | 16 | 11 | US-09-825-517A-81 | Sequence 81, Appl |
| 27 | 93 | 90.3 | 16 | 11 | US-09-825-517A-83 | Sequence 83, Appl |
| 28 | 93 | 90.3 | 16 | 11 | US-09-825-517A-136 | Sequence 136, Appl |
| 29 | 92 | 89.3 | 16 | 11 | US-09-825-517A-69 | Sequence 69, Appl |
| 30 | 92 | 89.3 | 16 | 11 | US-09-825-517A-84 | Sequence 84, Appl |
| 31 | 91 | 88.3 | 16 | 11 | US-09-825-517A-43 | Sequence 43, Appl |
| 32 | 91 | 88.3 | 16 | 11 | US-09-825-517A-50 | Sequence 50, Appl |
| 33 | 91 | 88.3 | 16 | 11 | US-09-825-517A-98 | Sequence 98, Appl |
| 34 | 91 | 88.3 | 16 | 11 | US-09-825-517A-119 | Sequence 119, Appl |
| 35 | 91 | 88.3 | 16 | 11 | US-09-825-517A-128 | Sequence 128, Appl |
| 36 | 90 | 87.4 | 16 | 11 | US-09-825-517A-64 | Sequence 64, Appl |
| 37 | 89 | 86.4 | 16 | 11 | US-09-825-517A-40 | Sequence 40, Appl |
| 38 | 89 | 86.4 | 16 | 11 | US-09-825-517A-71 | Sequence 71, Appl |
| 39 | 89 | 86.4 | 16 | 11 | US-09-825-517A-108 | Sequence 108, Appl |
| 40 | 88 | 85.4 | 16 | 11 | US-09-825-517A-61 | Sequence 61, Appl |
| 41 | 88 | 85.4 | 16 | 11 | US-09-825-517A-66 | Sequence 66, Appl |
| 42 | 88 | 85.4 | 16 | 11 | US-09-825-517A-79 | Sequence 79, Appl |
| 43 | 88 | 85.4 | 16 | 11 | US-09-825-517A-89 | Sequence 89, Appl |
| 44 | 88 | 85.4 | 16 | 11 | US-09-825-517A-92 | Sequence 92, Appl |
| 45 | 88 | 85.4 | 16 | 11 | US-09-825-517A-99 | Sequence 99, Appl |

ALIGNMENTS

RESULT 1
US-09-825-517A-45
; Sequence 45, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMERYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 45
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-45

Query Match 100.0%; Score 103; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 8.9e-08;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFCDIR 16
|||||
Db 1 DWICNLFKNQWFCDIR 16

RESULT 2
US-09-825-517A-121
; Sequence 121, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

```
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 121
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-121
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Query Match          100.0%; Score 103; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 8.9e-08;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
Qy 1 DWICNLFKNQWFCDIR 16
Db 1 DWICNLFKNQWFCDIR 16
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```
RESULT 3
US-09-825-517A-62
; Sequence 62, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 62
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-62
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Query Match          94.2%; Score 97; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 6.2e-07;
Matches 13; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

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Qy 1 DWICNLFKNQWFCDIR 16
Db 1 DWICNLFKNQWFCDVQ 16
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RESULT 4
US-09-825-517A-42
; Sequence 42, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
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```
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 42
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-42
```

```
Query Match          93.2%; Score 96; DB 11; Length 16;
Best Local Similarity 86.7%; Pred. No. 8.5e-07;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 DWICNLFKNQWFCDI 15
Db 1 DWICNLFKNQWFCDV 15
```

```
RESULT 5
US-09-825-517A-52
; Sequence 52, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-52
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```
Query Match          93.2%; Score 96; DB 11; Length 16;
Best Local Similarity 86.7%; Pred. No. 8.5e-07;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 DWICNLFKNQWFCDI 15
Db 1 DWICNLFKNQWFCDV 15
```

```
RESULT 6
US-09-825-517A-58
; Sequence 58, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 58
; LENGTH: 16
; TYPE: PRT
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```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-58
Query Match          93.2%; Score 96; DB 11; Length 16;
Best Local Similarity 86.7%; Pred. No. 8.5e-07;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDI 15
Db 1 DWVCNLFKNQWFCDV 15

RESULT 7
US-09-825-517A-74
; Sequence 74, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 74
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-74
Query Match          93.2%; Score 96; DB 11; Length 16;
Best Local Similarity 86.7%; Pred. No. 8.5e-07;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDI 15
Db 1 DWVCNLFKNQWFCDV 15

RESULT 8
US-09-825-517A-120
; Sequence 120, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 120
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-120
Query Match          93.2%; Score 96; DB 11; Length 16;
Best Local Similarity 86.7%; Pred. No. 8.5e-07;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDI 15
Db 1 DWVCNLFKNQWFCDV 15

RESULT 9
US-09-825-517A-124
; Sequence 124, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 124
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-124
Query Match          93.2%; Score 96; DB 11; Length 16;
Best Local Similarity 86.7%; Pred. No. 8.5e-07;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDI 15
Db 1 DWVCNLFKNQWFCDV 15

RESULT 10
US-09-825-517A-129
; Sequence 129, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 129
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-129
Query Match          93.2%; Score 96; DB 11; Length 16;
Best Local Similarity 86.7%; Pred. No. 8.5e-07;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDI 15
Db 1 DWVCNLFKNQWFCDV 15
```

```
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDI 15
Db 1 DWVCNLFKNQWFCDV 15

RESULT 9
US-09-825-517A-124
; Sequence 124, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 124
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-124
Query Match          93.2%; Score 96; DB 11; Length 16;
Best Local Similarity 86.7%; Pred. No. 8.5e-07;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDI 15
Db 1 DWVCNLFKNQWFCDV 15

RESULT 10
US-09-825-517A-129
; Sequence 129, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 129
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-129
Query Match          93.2%; Score 96; DB 11; Length 16;
Best Local Similarity 86.7%; Pred. No. 8.5e-07;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDI 15
Db 1 DWVCNLFKNQWFCDV 15
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RESULT 11

US-09-825-517A-38
 ; Sequence 38, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE OF INVENTION: ANTIGEN (CEA)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US/09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 38
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-38

Query Match 92.2%; Score 95; DB 11; Length 16;
 Best Local Similarity 86.7%; Pred. No. 1.2e-06;
 Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDI 15
 ||:|||||
 Db 1 DVMCNLFKNQWFCDL 15

RESULT 12

US-09-825-517A-48
 ; Sequence 48, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE OF INVENTION: ANTIGEN (CEA)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US/09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 48
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-48

Query Match 92.2%; Score 95; DB 11; Length 16;
 Best Local Similarity 93.3%; Pred. No. 1.2e-06;
 Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDI 15
 ||:|||||
 Db 1 DVMCNLFKNQWFCDL 15

RESULT 13

US-09-825-517A-132
 ; Sequence 132, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE OF INVENTION: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US/09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 132
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-132

Query Match 92.2%; Score 95; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 1.2e-06;
 Matches 13; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDIR 16
 ||:|||||
 Db 1 DVMCNLFKNQWFCDVQ 16

RESULT 14

US-09-825-517A-145
 ; Sequence 145, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE OF INVENTION: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US/09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 145
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-145

Query Match 92.2%; Score 95; DB 11; Length 16;
 Best Local Similarity 86.7%; Pred. No. 1.2e-06;
 Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDI 15
 ||:|||||
 Db 1 DVMCNLFKNQWFCDL 15

RESULT 15

US-09-825-517A-39
 ; Sequence 39, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE OF INVENTION: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US/09/541,345
 ; PRIOR FILING DATE: 2000-04-03


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; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 39
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-39

Query Match          91.3%; Score 94; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.6e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 DWICNLFKNQWFCD 14
        |||||
Db      1 DWICNLFKNQWFCD 14

Search completed: September 8, 2004, 14:25:07
Job time : 44.3 secs
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:51:54 ; Search time 12.2 Seconds
(without alignments)
67.706 Million cell updates/sec

Title: US-09-825-517A-121
Perfect score: 103
Sequence: 1 DWICNLFKNQWFCDIR 16

Scoring table: BLOSUM62 Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

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Minimum DB seq length: 0
Maximum DB seq length: 2000000000
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Database : Issued Patents, AA.*
1: /cgn2_6/pdata/2/iaa/5A_COMB pep.*
2: /cgn2_6/pdata/2/iaa/5B_COMB pep.*
3: /cgn2_6/pdata/2/iaa/6A_COMB pep.*
4: /cgn2_6/pdata/2/iaa/6B_COMB pep.*
5: /cgn2_6/pdata/2/iaa/PCTUS_COMB pep.*
6: /cgn2_6/pdata/2/iaa/backfiles1 pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Query % | | | DB | ID | Description |
|------------|---------|-------|--------|----|----------------------|-------------------|
| | Score | Match | Length | | | |
| 1 | 50 | 48.5 | 478 | 4 | US-09-137-223A-2 | Sequence 2, Appli |
| 2 | 48 | 46.6 | 215 | 3 | US-09-131-028A-3 | Sequence 3, Appli |
| 3 | 48 | 46.6 | 215 | 3 | US-09-131-028A-13 | Sequence 13, Appl |
| 4 | 45 | 43.7 | 612 | 4 | US-09-252-991A-17516 | Sequence 17516, A |
| 5 | 44.5 | 43.2 | 181 | 3 | US-09-029-213B-22 | Sequence 22, Appl |
| 6 | 44 | 42.7 | 582 | 3 | US-08-194-560-2 | Sequence 2, Appli |
| 7 | 42 | 40.8 | 21 | 4 | US-09-337-227C-27 | Sequence 27, Appl |
| 8 | 42 | 40.8 | 21 | 4 | US-09-723-251A-27 | Sequence 27, Appl |
| 9 | 42 | 40.8 | 480 | 2 | US-08-828-488-8 | Sequence 8, Appli |
| 10 | 42 | 40.8 | 480 | 4 | US-09-299-689A-8 | Sequence 8, Appli |
| 11 | 42 | 40.8 | 480 | 4 | US-09-702-705-336 | Sequence 336, App |
| 12 | 42 | 40.8 | 480 | 4 | US-09-736-457-336 | Sequence 336, App |
| 13 | 42 | 40.8 | 480 | 4 | US-09-614-124B-336 | Sequence 336, App |
| 14 | 42 | 40.8 | 480 | 4 | US-09-671-325-336 | Sequence 336, App |
| 15 | 42 | 40.8 | 480 | 4 | US-09-589-184-336 | Sequence 336, App |
| 16 | 41.5 | 40.3 | 190 | 1 | US-08-816-241-1 | Sequence 1, Appli |
| 17 | 41.5 | 40.3 | 190 | 3 | US-09-128-395-1 | Sequence 1, Appli |
| 18 | 41 | 39.8 | 2474 | 4 | US-08-265-967C-3 | Sequence 3, Appli |
| 19 | 41 | 39.8 | 2474 | 4 | US-08-305-790B-4 | Sequence 4, Appli |
| 20 | 39 | 37.9 | 326 | 2 | US-08-671-5978A-7 | Sequence 7, Appli |
| 21 | 39 | 37.9 | 604 | 4 | US-09-391-104-30 | Sequence 30, Appl |
| 22 | 39 | 37.9 | 607 | 3 | US-09-000-041A-2 | Sequence 2, Appli |
| 23 | 39 | 37.9 | 607 | 3 | US-09-211-704A-10 | Sequence 10, Appl |
| 24 | 39 | 37.9 | 1422 | 4 | US-08-469-260A-82 | Sequence 82, Appl |
| 25 | 39 | 37.9 | 1422 | 4 | US-08-488-446-82 | Sequence 82, Appl |
| 26 | 39 | 37.9 | 1422 | 4 | US-08-467-344A-82 | Sequence 82, Appl |
| 27 | 38.5 | 37.4 | 2886 | 4 | US-09-328-352-5022 | Sequence 5022, Ap |

ALIGNMENTS

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RESULT 1
US-09-137-223A-2
; Sequence 2, Application US/09137223A
; Patent No. 6420525
; GENERAL INFORMATION:
; APPLICANT: Yee, David P
; APPLICANT: Deisher, Theresa A
; TITLE OF INVENTION: TESTIS-SPECIFIC TRANSCRIPTION FACTOR
; TITLE OF INVENTION: ZGL-1
; FILE REFERENCE: 97-18
; CURRENT APPLICATION NUMBER: US/09/137,223A
; CURRENT FILING DATE: 1998-08-19
; PRIOR APPLICATION NUMBER: 06/056,130
; PRIOR FILING DATE: 1997-08-19
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 478
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-137-223A-2

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Query Match      48.5%; Score 50; DB 4; Length 478;
Best Local Similarity 37.5%; Pred. No. 12;
Matches 6; Conservative 6; Mismatches 4; Indels 0; Gaps 0
Qy      1 DWICNLFKNQWFCDIR 16
Db      322 EWLSSVYKQOWFAMLR 337

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RESULT 2
US-09-131-028A-3
; Sequence 3, Application US/09131028A
; Patent NO. 6287866
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Mukerji, Pradip
; APPLICANT: Lemmel, Steven A.
; APPLICANT: Leonard, Amanda Eun-Yeong
; TITLE OF INVENTION: BETA-CASEIN EXPRESSING
; FILE REFERENCE: 6004 US.P1
; CURRENT APPLICATION NUMBER: US/09/131,028A
; CURRENT FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: US 08/064,440
; PRIOR FILING DATE: 1993-05-21
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3

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[illegible]

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; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/194,560
; FILING DATE: 14-FEB-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Trecartin, Richard F.
; REGISTRATION NUMBER: 31,801
; REFERENCE/DOCKET NUMBER: A-59515/RFT/RMS
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 781-1989
; TELEFAX: (415) 398-3249
; TELEX: 910 277299
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 582 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-194-560-2

Query Match 42.7%; Score 44; DB 3; Length 582;
Best Local Similarity 31.2%; Pred. No. 1.1e+02;
Matches 5; Conservative 6; Mismatches 5; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFCDIR 16
Db 322 DWLCKMSRNECFTHLK 337

RESULT 7
US-09-337-227C-27
; Sequence 27, Application US/09337227C
; Patent No. 6420518
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: PI071P2.rev
; CURRENT FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/052,888
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6608028
US-09-337-227C-27

Query Match 40.8%; Score 42; DB 4; Length 21;
Best Local Similarity 38.5%; Pred. No. 6.9;
Matches 5; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 2 WICNLFKNQWFCD 14
Db 3 WVCRAGPLQWLCE 15

RESULT 8
US-09-723-251A-27
; Sequence 27, Application US/09723251A
; Patent No. 6608028
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; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: PI071P2C1.2rev
; CURRENT APPLICATION NUMBER: US/09/723,251A
; CURRENT FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: US 09/337,227
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6608028
US-09-723-251A-27

Query Match 40.8%; Score 42; DB 4; Length 21;
Best Local Similarity 38.5%; Pred. No. 6.9;
Matches 5; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 2 WICNLFKNQWFCD 14
Db 3 WVCRAGPLQWLCE 15

RESULT 9
US-08-828-488-8
; Sequence 8, Application US/08828488
; Patent No. 5925521
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL HUMAN SERINE
; TITLE OF INVENTION: CARBOXYPEPTIDASE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/828,488
; FILING DATE: Filed Herewith
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0241 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 8:
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; SEQUENCE CHARACTERISTICS:
; LENGTH: 480 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 190283
US-08-828-488-8

Query Match 40.8%; Score 42; DB 2; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.7e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFC D 14
DB 400 DMACNFWGDEWFD 413

RESULT 10
US-09-299-689A-8
; Sequence 8, Application US/09299689A
; Patent No. 6379913
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL HUMAN SERINE
; TITLE OF INVENTION: CARBOXYPEPTIDASE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/299,689A
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/828,488
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0241 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 480 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 190283
US-09-299-689A-8

Query Match 40.8%; Score 42; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.7e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFC D 14

Db 400 DMACNFWGDEWFD 413

RESULT 11
US-09-702-705-336
; Sequence 336, Application US/09702705
; Patent No. 6504010
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C14
; CURRENT APPLICATION NUMBER: US/09/702,705
; CURRENT FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 1833
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-702-705-336

Query Match 40.8%; Score 42; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.7e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFC D 14
DB 400 DMACNFWGDEWFD 413

RESULT 12
US-09-736-457-336
; Sequence 336, Application US/09736457
; Patent No. 6509448
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; APPLICANT: Wang, AiJun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C15
; CURRENT APPLICATION NUMBER: US/09/736,457
; CURRENT FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 1864
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-736-457-336

Query Match 40.8%; Score 42; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.7e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFC D 14

Db 400 DMACNFMGDEWFVD 413

RESULT 13
US-09-614-124B-336
; Sequence 336, Application US/09614124B
; Patent No. 6630574
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.478C9
; CURRENT APPLICATION NUMBER: US/09/614.124B
; CURRENT FILING DATE: 2001-07-11
; NUMBER OF SEQ ID NOS: 1668
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-614-124B-336

Query Match 40.8%; Score 42; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.7e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCFCD 14
Db 400 DMACNFMGDEWFVD 413

RESULT 14
US-09-671-325-336
; Sequence 336, Application US/09671325
; Patent No. 6667154
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C12
; CURRENT APPLICATION NUMBER: US/09/671.325
; CURRENT FILING DATE: 2000-09-26
; NUMBER OF SEQ ID NOS: 1825
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-671-325-336

Query Match 40.8%; Score 42; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.7e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCFCD 14
Db 400 DMACNFMGDEWFVD 413

RESULT 15
US-09-589-184-336
; Sequence 336, Application US/09589184
; Patent No. 6686447
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.478C8
; CURRENT APPLICATION NUMBER: US/09/589.184
; CURRENT FILING DATE: 2000-06-05
; NUMBER OF SEQ ID NOS: 827
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-589-184-336

Query Match 40.8%; Score 42; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.7e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCFCD 14
Db 400 DMACNFMGDEWFVD 413

Search completed: September 8, 2004, 12:58:35
Job time : 12.2 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:53:30 ; Search time 44.3 Seconds
(without alignments)
113.793 Million cell updates/sec

Title: US-09-825-517A-120

Perfect score: 106

Sequence: 1 DWVCNLFKNQWFCDDVH 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|--------------------|
| 1 | 106 | 100.0 | 16 | 11 | US-09-825-517A-120 |
| 2 | 98 | 92.5 | 16 | 11 | Sequence 120, App |
| 3 | 98 | 92.5 | 16 | 11 | Sequence 42, Appl |
| 4 | 98 | 92.5 | 16 | 11 | Sequence 52, Appl |
| 5 | 98 | 92.5 | 16 | 11 | Sequence 58, Appl |
| 6 | 98 | 92.5 | 16 | 11 | Sequence 62, Appl |
| 7 | 98 | 92.5 | 16 | 11 | Sequence 74, Appl |
| 8 | 98 | 92.5 | 16 | 11 | Sequence 124, App |
| 9 | 97 | 91.5 | 16 | 11 | Sequence 129, App |
| 10 | 96 | 90.6 | 16 | 11 | Sequence 64, Appl |
| 11 | 96 | 90.6 | 16 | 11 | Sequence 45, Appl |
| 12 | 95 | 89.6 | 16 | 11 | Sequence 121, App |
| 13 | 95 | 89.6 | 16 | 11 | Sequence 38, Appl |
| 14 | 95 | 89.6 | 16 | 11 | Sequence 46, Appl |
| 15 | 95 | 89.6 | 16 | 11 | Sequence 84, Appl |
| | | | | | Sequence 132, App |

| | | | | | | |
|----|----|------|----|----|--------------------|-------------------|
| 16 | 95 | 89.6 | 16 | 11 | US-09-825-517A-145 | Sequence 145, App |
| 17 | 94 | 88.7 | 16 | 11 | US-09-825-517A-48 | Sequence 48, Appl |
| 18 | 94 | 88.7 | 16 | 11 | US-09-825-517A-53 | Sequence 53, Appl |
| 19 | 94 | 88.7 | 16 | 11 | US-09-825-517A-73 | Sequence 73, Appl |
| 20 | 94 | 88.7 | 16 | 11 | US-09-825-517A-77 | Sequence 77, Appl |
| 21 | 94 | 88.7 | 16 | 11 | US-09-825-517A-81 | Sequence 81, Appl |
| 22 | 94 | 88.7 | 16 | 11 | US-09-825-517A-83 | Sequence 83, Appl |
| 23 | 94 | 88.7 | 16 | 11 | US-09-825-517A-136 | Sequence 136, App |
| 24 | 93 | 87.7 | 16 | 11 | US-09-825-517A-39 | Sequence 39, Appl |
| 25 | 93 | 87.7 | 16 | 11 | US-09-825-517A-47 | Sequence 47, Appl |
| 26 | 93 | 87.7 | 16 | 11 | US-09-825-517A-50 | Sequence 50, Appl |
| 27 | 93 | 87.7 | 16 | 11 | US-09-825-517A-57 | Sequence 57, Appl |
| 28 | 93 | 87.7 | 16 | 11 | US-09-825-517A-69 | Sequence 69, Appl |
| 29 | 93 | 87.7 | 16 | 11 | US-09-825-517A-89 | Sequence 89, Appl |
| 30 | 93 | 87.7 | 16 | 11 | US-09-825-517A-119 | Sequence 119, App |
| 31 | 93 | 87.7 | 16 | 11 | US-09-825-517A-128 | Sequence 128, App |
| 32 | 93 | 87.7 | 16 | 11 | US-09-825-517A-131 | Sequence 131, App |
| 33 | 93 | 87.7 | 16 | 11 | US-09-825-517A-134 | Sequence 134, App |
| 34 | 92 | 86.8 | 16 | 11 | US-09-825-517A-37 | Sequence 37, Appl |
| 35 | 91 | 85.8 | 16 | 11 | US-09-825-517A-41 | Sequence 41, Appl |
| 36 | 91 | 85.8 | 16 | 11 | US-09-825-517A-43 | Sequence 43, Appl |
| 37 | 90 | 84.9 | 16 | 11 | US-09-825-517A-98 | Sequence 98, Appl |
| 38 | 89 | 84.0 | 16 | 11 | US-09-825-517A-61 | Sequence 61, Appl |
| 39 | 89 | 84.0 | 16 | 11 | US-09-825-517A-66 | Sequence 66, Appl |
| 40 | 89 | 84.0 | 16 | 11 | US-09-825-517A-99 | Sequence 99, Appl |
| 41 | 88 | 83.0 | 16 | 11 | US-09-825-517A-40 | Sequence 40, Appl |
| 42 | 88 | 83.0 | 16 | 11 | US-09-825-517A-71 | Sequence 71, Appl |
| 43 | 88 | 83.0 | 16 | 11 | US-09-825-517A-108 | Sequence 108, App |
| 44 | 87 | 82.1 | 16 | 11 | US-09-825-517A-79 | Sequence 79, Appl |
| 45 | 87 | 82.1 | 16 | 11 | US-09-825-517A-92 | Sequence 92, Appl |

ALIGNMENTS

RESULT 1
US-09-825-517A-120
; Sequence 120, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 120
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-120

Query Match 100.0%; Score 106; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 2.7e-08;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDVH 16
|||||
Db 1 DWVCNLFKNQWFCDDVH 16

RESULT 2
US-09-825-517A-42
; Sequence 42, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

```
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 42
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-42

Query Match          92.5%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.7e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDV 15
Db 1 DWVCNLFKNQWFCDV 15

RESULT 3
US-09-825-517A-52
; Sequence 52, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-52

Query Match          92.5%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.7e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDV 15
Db 1 DWVCNLFKNQWFCDV 15

RESULT 4
US-09-825-517A-58
; Sequence 58, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
```

```
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 58
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-58

Query Match          92.5%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.7e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDV 15
Db 1 DWVCNLFKNQWFCDV 15

RESULT 5
US-09-825-517A-62
; Sequence 62, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 62
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-62

Query Match          92.5%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.7e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDV 15
Db 1 DWVCNLFKNQWFCDV 15

RESULT 6
US-09-825-517A-74
; Sequence 74, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 74
; LENGTH: 16
; TYPE: PRT
```

```

; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-74

Query Match          92.5%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.7e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDV 15
Db 1 DWVCNLFKNQWFCDV 15

RESULT 7
US-09-825-517A-124
; Sequence 124, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 124
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-124

Query Match          92.5%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.7e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDV 15
Db 1 DWVCNLFKNQWFCDV 15

RESULT 8
US-09-825-517A-129
; Sequence 129, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 129
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-129

Query Match          92.5%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.7e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDV 15
Db 1 DWVCNLFKNQWFCDV 15

RESULT 9
US-09-825-517A-64
; Sequence 64, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 64
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-64

Query Match          91.5%; Score 97; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 5.1e-07;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDVH 16
Db 1 DWICNLFKNQWFCEAH 16

RESULT 10
US-09-825-517A-45
; Sequence 45, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 45
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-45

Query Match          90.6%; Score 96; DB 11; Length 16;
Best Local Similarity 86.7%; Pred. No. 7e-07;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDV 15
Db 1 DWICNLFKNQWFCDI 15

```

RESULT 11
US-09-825-517A-121
; Sequence 121, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 121
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-121

Query Match 90.6%; Score 96; DB 11; Length 16;
Best Local Similarity 86.7%; Pred. No. 7e-07;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DMVCNLFKNQWFCDV 15
||:|||||
Db 1 DMVCNLFKNQWFCDI 15

RESULT 12
US-09-825-517A-38
; Sequence 38, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 38
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-38

Query Match 89.6%; Score 95; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 9.7e-07;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DMVCNLFKNQWFCDV 15
||:|||||
Db 1 DMVCNLFKNQWFCDL 15

RESULT 13
US-09-825-517A-46
; Sequence 46, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 46
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-46

Query Match 89.6%; Score 95; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 9.7e-07;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DMVCNLFKNQWFCDV 15
||:|||||
Db 1 DMVCNLFKNQWFCDV 15

RESULT 14
US-09-825-517A-84
; Sequence 84, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 84
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-84

Query Match 89.6%; Score 95; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 9.7e-07;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DMVCNLFKNQWFCDVH 16
||:|||||
Db 1 DMVCNLFKNQWFCDVY 16

RESULT 15
US-09-825-517A-132
; Sequence 132, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03

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; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 132
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-132
```

```
Query Match      89.6%; Score 95; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 9.7e-07;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1 DWVCNLFKNQWFCDV 15
||:|||||
Db      1 DWMCNLFKNQWFCDV 15
```

```
Search completed: September 8, 2004, 14:25:07
Job time : 44.3 secs
```


GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:51:54 ; Search time 12.2 Seconds
(without alignments)
67.706 Million cell updates/sec

Title: US-09-825-517A-120
Perfect score: 106
Sequence: 1 DWVCNLFKNQWFCVDV 16

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*

- 1: /cgn2_6/ptodata/2/iaa/5A COMB.pap.*
- 2: /cgn2_6/ptodata/2/iaa/5B COMB.pap.*
- 3: /cgn2_6/ptodata/2/iaa/6A COMB.pap.*
- 4: /cgn2_6/ptodata/2/iaa/6B COMB.pap.*
- 5: /cgn2_6/ptodata/2/iaa/PCTUS COMB.pap.*
- 6: /cgn2_6/ptodata/2/iaa/backfiles1.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|----------------------|
| 1 | 48 | 45.3 | 215 | 3 | US-09-131-028A-3 |
| 2 | 48 | 45.3 | 215 | 3 | US-09-131-028A-13 |
| 3 | 45 | 42.5 | 478 | 4 | US-09-137-223A-2 |
| 4 | 44 | 41.5 | 612 | 4 | US-09-252-991A-17516 |
| 5 | 43 | 40.6 | 21 | 4 | US-09-337-227C-27 |
| 6 | 43 | 40.6 | 21 | 4 | US-09-723-251A-27 |
| 7 | 43 | 40.6 | 480 | 2 | US-08-828-488-8 |
| 8 | 43 | 40.6 | 480 | 4 | US-09-299-689A-8 |
| 9 | 43 | 40.6 | 480 | 4 | US-09-702-705-336 |
| 10 | 43 | 40.6 | 480 | 4 | US-09-736-457-336 |
| 11 | 43 | 40.6 | 480 | 4 | US-09-614-124B-336 |
| 12 | 43 | 40.6 | 480 | 4 | US-09-671-325-336 |
| 13 | 43 | 40.6 | 480 | 4 | US-09-589-184-336 |
| 14 | 42.5 | 40.1 | 190 | 1 | US-08-816-241-1 |
| 15 | 42.5 | 40.1 | 190 | 3 | US-09-128-395-1 |
| 16 | 42 | 39.6 | 932 | 4 | US-09-328-352-7453 |
| 17 | 41 | 38.7 | 132 | 4 | US-08-311-731A-361 |
| 18 | 41 | 38.7 | 582 | 3 | US-08-194-560-2 |
| 19 | 41 | 38.7 | 2474 | 4 | US-08-265-967C-3 |
| 20 | 41 | 38.7 | 2474 | 4 | US-08-305-790B-4 |
| 21 | 40.5 | 38.2 | 181 | 3 | US-09-029-213B-22 |
| 22 | 39.5 | 37.3 | 286 | 4 | US-09-328-352-5022 |
| 23 | 39 | 36.8 | 80 | 4 | US-09-673-395A-447 |
| 24 | 39 | 36.8 | 131 | 2 | US-08-834-655-9 |
| 25 | 39 | 36.8 | 131 | 3 | US-08-834-033A-10 |
| 26 | 39 | 36.8 | 131 | 3 | US-09-363-574-9 |
| 27 | 39 | 36.8 | 131 | 4 | US-09-363-526-9 |

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28 39 36.8 219 4 US-09-439-261-20 Sequence 20, Appl
29 39 36.8 219 4 US-09-227-613-19 Sequence 19, Appl
30 39 36.8 227 4 US-08-213-419B-13 Sequence 13, Appl
31 39 36.8 287 4 US-09-439-261-13 Sequence 13, Appl
32 39 36.8 287 4 US-09-227-613-14 Sequence 14, Appl
33 39 36.8 288 4 US-09-439-261-14 Sequence 14, Appl
34 39 36.8 288 4 US-09-439-261-16 Sequence 16, Appl
35 39 36.8 288 4 US-09-439-261-18 Sequence 18, Appl
36 39 36.8 288 4 US-09-227-613-15 Sequence 15, Appl
37 39 36.8 444 4 US-09-439-261-11 Sequence 11, Appl
38 39 36.8 444 4 US-09-439-261-43 Sequence 43, Appl
39 39 36.8 444 4 US-09-227-613-12 Sequence 12, Appl
40 39 36.8 444 4 US-09-048-888-3 Sequence 42, Appl
41 39 36.8 444 4 US-09-439-261-18 Sequence 3, Appl
42 39 36.8 445 4 US-09-439-261-39 Sequence 39, Appl
43 39 36.8 445 4 US-09-439-261-45 Sequence 45, Appl
44 39 36.8 3033 1 US-07-925-695-8 Sequence 8, Appl
45 39 36.8 3033 1 US-07-925-695-9 Sequence 9, Appl

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ALIGNMENTS

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RESULT 1
US-09-131-028A-3
; Sequence 3, Application US/09131028A
; Patent No. 6287866
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Mukerji, Pradip
; APPLICANT: Lemmel, Steven A.
; APPLICANT: Leonard, Amanda Eun-Yeong
; APPLICANT: Chaudhary, Sunita
; TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS
; FILE REFERENCE: 6004 US.P1
; CURRENT APPLICATION NUMBER: US/09/131,028A
; CURRENT FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: US 08/064,440
; PRIOR FILING DATE: 1993-05-21
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 215
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-131-028A-3
Query Match 45.3%; Score 48; DB 3; Length 215;
Best Local Similarity 50.0%; Pred. No. 10;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

Qy 2 WVCNLFKNQWFCVDV 15
Db 12 WFCGLRGNEFFCEV 25

RESULT 2
US-09-131-028A-13
; Sequence 13, Application US/09131028A
; Patent No. 6287866
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Mukerji, Pradip
; APPLICANT: Lemmel, Steven A.
; APPLICANT: Leonard, Amanda Eun-Yeong
; APPLICANT: Chaudhary, Sunita
; TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS
; FILE REFERENCE: 6004 US.P1
; CURRENT APPLICATION NUMBER: US/09/131,028A
; CURRENT FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: US 08/064,440
; PRIOR FILING DATE: 1993-05-21
; NUMBER OF SEQ ID NOS: 22

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; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 215
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-131-028A-13

Query Match 45.3%; Score 48; DB 3; Length 215;
Best Local Similarity 50.0%; Pred. No. 10;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

Qy 2 WVCNLFKNQWPCDV 15
Db 12 WFCGLRGNEFFCEV 25

RESULT 3
US-09-137-223A-2
; Sequence 2, Application US/09137223A
; Patent No. 6420525
; GENERAL INFORMATION:
; APPLICANT: Yee, David P
; APPLICANT: Deisher, Theresa A
; TITLE OF INVENTION: TESTIS-SPECIFIC TRANSCRIPTION FACTOR
; FILE REFERENCE: ZGCL-1
; CURRENT APPLICATION NUMBER: US/09/137,223A
; CURRENT FILING DATE: 1998-08-19
; PRIOR APPLICATION NUMBER: 06/056,130
; PRIOR FILING DATE: 1997-08-19
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 478
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-137-223A-2

Query Match 42.5%; Score 45; DB 4; Length 478;
Best Local Similarity 41.7%; Pred. No. 62;
Matches 5; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWF 12
Db 322 EWLSSVYKQWF 333

RESULT 4
US-09-252-991A-17516
; Sequence 17516, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 17516
; LENGTH: 612
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-17516

Query Match 41.5%; Score 44; DB 4; Length 612;
Best Local Similarity 75.0%; Pred. No. 11e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 WVCNLFKN 9
Db 54 WICNLFAN 61

RESULT 5
US-09-337-227C-27
; Sequence 27, Application US/09337227C
; Patent No. 6420518
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2.rev
; CURRENT APPLICATION NUMBER: US/09/337,227C
; CURRENT FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/052,888
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6420518
US-09-337-227C-27

Query Match 40.6%; Score 43; DB 4; Length 21;
Best Local Similarity 46.2%; Pred. No. 4.9;
Matches 6; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

Qy 2 WVCNLFKNQWFCD 14
Db 3 WVCRAQLQWLCE 15

RESULT 6
US-09-723-251A-27
; Sequence 27, Application US/09723251A
; Patent No. 6608028
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2Cl.2rev
; CURRENT APPLICATION NUMBER: US/09/723,251A
; CURRENT FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: US 09/337,227
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6608028
US-09-723-251A-27

Query Match 40.6%; Score 43; DB 4; Length 21;

Best Local Similarity 46.2%; Pred. No. 4.9;
Matches 6; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 2 WVCNLFKNQWFC D 14
Db 3 WVCRAGPLQWLCE 15

RESULT 7
US-08-828-488-8
; Sequence 8, Application US/08828488
; Patent No. 5925521
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL HUMAN SERINE
; CARBOXYPEPTIDASE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/828,488
; FILING DATE: Filed Herewith
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0241 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 480 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 190283
US-08-828-488-8

Query Match 40.6%; Score 43; DB 2; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFC D 14
Db 400 DMACNFMGDEWFDV D 413

RESULT 8
US-09-299-689A-8
; Sequence 8, Application US/09299689A
; Patent No. 6379913
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Hawkins, Phillip R.

; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL HUMAN SERINE
; CARBOXYPEPTIDASE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/299,689A
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/828,488
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0241 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 480 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 190283
US-09-299-689A-8

Query Match 40.6%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFC D 14
Db 400 DMACNFMGDEWFDV D 413

RESULT 9
US-09-702-705-336
; Sequence 336, Application US/09702705
; Patent No. 6504010
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C14
; CURRENT APPLICATION NUMBER: US/09/702,705
; CURRENT FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 1833
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336

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; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-702-705-336

Query Match      40.6%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWPCD 14
Db 400 DMACNFMGDEWFVD 413

RESULT 10
US-09-736-457-336
; Sequence 336, Application US/09736457
; Patent No. 6509448
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; APPLICANT: Wang, Aijun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C15
; CURRENT APPLICATION NUMBER: US/09/736,457
; CURRENT FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 1864
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-736-457-336

Query Match      40.6%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWPCD 14
Db 400 DMACNFMGDEWFVD 413

RESULT 11
US-09-614-124B-336
; Sequence 336, Application US/09614124B
; Patent No. 6630574
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C9
; CURRENT APPLICATION NUMBER: US/09/614,124B
; CURRENT FILING DATE: 2001-07-11
; NUMBER OF SEQ ID NOS: 1668
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-614-124B-336

Query Match      40.6%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWPCD 14
Db 400 DMACNFMGDEWFVD 413

RESULT 12
US-09-671-325-336
; Sequence 336, Application US/09671325
; Patent No. 8667154
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C12
; CURRENT APPLICATION NUMBER: US/09/671,325
; CURRENT FILING DATE: 2000-09-26
; NUMBER OF SEQ ID NOS: 1825
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-671-325-336

Query Match      40.6%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWPCD 14
Db 400 DMACNFMGDEWFVD 413

RESULT 13
US-09-589-184-336
; Sequence 336, Application US/09589184
; Patent No. 6866447
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C8
; CURRENT APPLICATION NUMBER: US/09/589,184
; CURRENT FILING DATE: 2000-06-05
; NUMBER OF SEQ ID NOS: 827
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
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US-09-589-184-336

Query Match 40.6%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFC 14
| | | | |
| | | | |
Db 400 DMACNFMGDEWFD 413

RESULT 14

US-08-816-241-1
; Sequence 1, Application US/08816241
; Patent No. 5804185
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL RNA EDITING ENZYME
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/816,241
; FILING DATE: Filed Herewith
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0239 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 190 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: PROSTUT09
; CLONE: 1646823
US-08-816-241-1

Query Match 40.1%; Score 42.5; DB 1; Length 190;
Best Local Similarity 28.6%; Pred. No. 55;
Matches 8; Conservative 2; Mismatches 3; Indels 15; Gaps 1;

QY 2 WVCNLFKNQ-----WFC 14
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| | | | |
Db 50 WKTGVFRNQVDSETHCHAERCFLSWFC 77

RESULT 15

US-09-128-395-1
; Sequence 1, Application US/09128395
; Patent No. 6087108
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Goli, Surya K.

; TITLE OF INVENTION: NOVEL RNA EDITING ENZYME
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/128,395
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/816,241
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0239 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 190 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: PROSTUT09
; CLONE: 1646823
US-09-128-395-1

Query Match 40.1%; Score 42.5; DB 3; Length 190;
Best Local Similarity 28.6%; Pred. No. 55;
Matches 8; Conservative 2; Mismatches 3; Indels 15; Gaps 1;

QY 2 WVCNLFKNQ-----WFC 14
| | | | |
| | | | |
Db 50 WKTGVFRNQVDSETHCHAERCFLSWFC 77

Search completed: September 8, 2004, 12:58:35
Job time : 13.2 secs

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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:53:30 ; Search time 44.3 Seconds
(without alignments)
113.793 Million cell updates/sec

Title: US-09-825-517A-119

Perfect score: 109
Sequence: 1 DWCNLFKNQWFCNVW 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/1/pubaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/1/pubaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|--------------------|
| 1 | 109 | 100.0 | 16 | 11 | US-09-825-517A-119 |
| 2 | 104 | 95.4 | 16 | 11 | US-09-825-517A-58 |
| 3 | 99 | 90.8 | 16 | 11 | US-09-825-517A-57 |
| 4 | 99 | 90.8 | 16 | 11 | US-09-825-517A-134 |
| 5 | 98 | 89.9 | 16 | 11 | US-09-825-517A-50 |
| 6 | 98 | 89.9 | 16 | 11 | US-09-825-517A-53 |
| 7 | 98 | 89.9 | 16 | 11 | US-09-825-517A-128 |
| 8 | 94 | 86.2 | 16 | 11 | US-09-825-517A-61 |
| 9 | 93 | 85.3 | 16 | 11 | US-09-825-517A-42 |
| 10 | 93 | 85.3 | 16 | 11 | US-09-825-517A-52 |
| 11 | 93 | 85.3 | 16 | 11 | US-09-825-517A-62 |
| 12 | 93 | 85.3 | 16 | 11 | US-09-825-517A-71 |
| 13 | 93 | 85.3 | 16 | 11 | US-09-825-517A-74 |
| 14 | 93 | 85.3 | 16 | 11 | US-09-825-517A-108 |
| 15 | 93 | 85.3 | 16 | 11 | US-09-825-517A-120 |

| | | | | | | |
|----|----|------|----|----|--------------------|-------------------|
| 16 | 93 | 85.3 | 16 | 11 | US-09-825-517A-124 | Sequence 124, App |
| 17 | 93 | 85.3 | 16 | 11 | US-09-825-517A-129 | Sequence 129, App |
| 18 | 91 | 83.5 | 16 | 11 | US-09-825-517A-41 | Sequence 41, App1 |
| 19 | 91 | 83.5 | 16 | 11 | US-09-825-517A-45 | Sequence 45, App1 |
| 20 | 91 | 83.5 | 16 | 11 | US-09-825-517A-121 | Sequence 121, App |
| 21 | 90 | 82.6 | 16 | 11 | US-09-825-517A-38 | Sequence 38, App1 |
| 22 | 90 | 82.6 | 16 | 11 | US-09-825-517A-46 | Sequence 46, App1 |
| 23 | 90 | 82.6 | 16 | 11 | US-09-825-517A-84 | Sequence 84, App1 |
| 24 | 90 | 82.6 | 16 | 11 | US-09-825-517A-132 | Sequence 132, App |
| 25 | 90 | 82.6 | 16 | 11 | US-09-825-517A-145 | Sequence 145, App |
| 26 | 89 | 81.7 | 16 | 11 | US-09-825-517A-4 | Sequence 4, App1 |
| 27 | 89 | 81.7 | 16 | 11 | US-09-825-517A-48 | Sequence 48, App1 |
| 28 | 89 | 81.7 | 16 | 11 | US-09-825-517A-73 | Sequence 73, App1 |
| 29 | 89 | 81.7 | 16 | 11 | US-09-825-517A-77 | Sequence 77, App1 |
| 30 | 89 | 81.7 | 16 | 11 | US-09-825-517A-81 | Sequence 81, App1 |
| 31 | 89 | 81.7 | 16 | 11 | US-09-825-517A-83 | Sequence 83, App1 |
| 32 | 89 | 81.7 | 16 | 11 | US-09-825-517A-136 | Sequence 136, App |
| 33 | 89 | 81.7 | 27 | 11 | US-09-825-517A-24 | Sequence 24, App1 |
| 34 | 88 | 80.7 | 16 | 11 | US-09-825-517A-39 | Sequence 39, App1 |
| 35 | 88 | 80.7 | 16 | 11 | US-09-825-517A-47 | Sequence 47, App1 |
| 36 | 88 | 80.7 | 16 | 11 | US-09-825-517A-69 | Sequence 69, App1 |
| 37 | 88 | 80.7 | 16 | 11 | US-09-825-517A-131 | Sequence 131, App |
| 38 | 87 | 79.8 | 16 | 11 | US-09-825-517A-37 | Sequence 37, App |
| 39 | 87 | 79.8 | 16 | 11 | US-09-825-517A-59 | Sequence 59, App1 |
| 40 | 87 | 79.8 | 16 | 11 | US-09-825-517A-64 | Sequence 64, App1 |
| 41 | 87 | 79.8 | 16 | 11 | US-09-825-517A-79 | Sequence 79, App1 |
| 42 | 87 | 79.8 | 16 | 11 | US-09-825-517A-89 | Sequence 89, App1 |
| 43 | 87 | 79.8 | 16 | 11 | US-09-825-517A-92 | Sequence 92, App1 |
| 44 | 86 | 78.9 | 16 | 11 | US-09-825-517A-43 | Sequence 43, App1 |
| 45 | 86 | 78.9 | 16 | 11 | US-09-825-517A-127 | Sequence 127, App |

ALIGNMENTS

RESULT 1
US-09-825-517A-119
; Sequence 119, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 119
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-119

Query Match 100.0%; Score 109; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.2e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWCNLFKNQWFCNVW 16
| | | | | | | | | | | | | | | |
Db 1 DWCNLFKNQWFCNVW 16

RESULT 2
US-09-825-517A-58
; Sequence 58, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

```
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 58
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-58

Query Match          95.4%; Score 104; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 5,5e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCNVW 16
DB 1 DWVCNLFKNQWFCDVW 16

RESULT 3
US-09-825-517A-57
; Sequence 57, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 57
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-57

Query Match          90.8%; Score 99; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.4e-06;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCNVW 16
DB 1 DWVCNLFKNQWFCDAW 16

RESULT 4
US-09-825-517A-134
; Sequence 134, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
```

```
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 134
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-134

Query Match          90.8%; Score 99; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.4e-06;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCNVW 16
DB 1 DWVCNLFKNQWFCDAW 16

RESULT 5
US-09-825-517A-50
; Sequence 50, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 50
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-50

Query Match          89.9%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.3e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCNV 15
DB 1 DWVCNLFKNQWFCNV 15

RESULT 6
US-09-825-517A-53
; Sequence 53, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 53
; LENGTH: 16
; TYPE: PRT
```

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-53

Query Match      89.9%; Score 98; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 3.3e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCNV 16
Db 1 DWVCNLFKNQWFCDKW 16

RESULT 7
US-09-825-517A-128
; Sequence 128, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 128
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-128

Query Match      89.9%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.3e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCNV 15
Db 1 DWVCNLFKNQWFCNV 15

RESULT 8
US-09-825-517A-61
; Sequence 61, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 61
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-61

Query Match      86.2%; Score 94; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.1e-05;
```

```
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCN 14
Db 1 DWVCNLFKNQWFCN 14

RESULT 9
US-09-825-517A-42
; Sequence 42, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 42
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-42

Query Match      85.3%; Score 93; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 1.5e-05;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCNV 15
Db 1 DWVCNLFKNQWFCDV 15

RESULT 10
US-09-825-517A-52
; Sequence 52, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-52

Query Match      85.3%; Score 93; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 1.5e-05;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

RESULT 11
 US-09-825-517A-62
 ; Sequence 62, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 62
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-62

Query Match 85.3%; Score 93; DB 11; Length 16;
 Best Local Similarity 93.3%; Pred. No. 1.5e-05;
 Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCNV 15
 |||||:|
 Db 1 DWVCNLFKNQWFCDV 15

RESULT 12
 US-09-825-517A-71
 ; Sequence 71, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 71
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-71

Query Match 85.3%; Score 93; DB 11; Length 16;
 Best Local Similarity 92.9%; Pred. No. 1.5e-05;
 Matches 13; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCN 14
 |||||:|
 Db 1 DWVCNLFKNQWFCN 14

RESULT 13
 US-09-825-517A-74
 ; Sequence 74, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; TITLE OF INVENTION: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 74
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-74

Query Match 85.3%; Score 93; DB 11; Length 16;
 Best Local Similarity 93.3%; Pred. No. 1.5e-05;
 Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCNV 15
 |||||:|
 Db 1 DWVCNLFKNQWFCDV 15

RESULT 14
 US-09-825-517A-108
 ; Sequence 108, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 108
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-108

Query Match 85.3%; Score 93; DB 11; Length 16;
 Best Local Similarity 92.9%; Pred. No. 1.5e-05;
 Matches 13; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCN 14
 |||||:|
 Db 1 DWVCNLFKNQWFCN 14

RESULT 15
 US-09-825-517A-120
 ; Sequence 120, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03


```
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 120
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-120
```

```
Query Match      85.3%   Score 93;   DB 11;   Length 16;
Best Local Similarity 93.3%   Pred. No. 1.5e-05;
Matches 14;   Conservative 1;   Mismatches 0;   Indels 0;   Gaps 0;
```

```
QY      1 DWVCNLFKNQWFCNV 15
        |||||
Db      1 DWVCNLFKNQWFCDV 15
```

```
Search completed: September 8, 2004, 14:25:07
Job time : 45.3 secs
```


GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:51:54 ; Search time 12.2 Seconds
(without alignments)
67.706 Million cell updates/sec

Title: US-09-825-517A-119
Perfect score: 109
Sequence: 1 DWVCLFKNQWFCNV 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA: *
1: /cgn2_6/ptodata/2/iaa/5A COMB.pbp: *
2: /cgn2_6/ptodata/2/iaa/5B COMB.pbp: *
3: /cgn2_6/ptodata/2/iaa/6A COMB.pbp: *
4: /cgn2_6/ptodata/2/iaa/6B COMB.pbp: *
5: /cgn2_6/ptodata/2/iaa/PCTUS COMB.pbp: *
6: /cgn2_6/ptodata/2/iaa/backfiles1.pbp: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|----------------------|
| 1 | 46 | 42.2 | 215 | 3 | US-09-131-028A-3 |
| 2 | 46 | 42.2 | 215 | 3 | US-09-131-028A-13 |
| 3 | 45 | 41.3 | 478 | 4 | US-09-137-223A-2 |
| 4 | 44 | 40.4 | 498 | 1 | US-08-357-538-9 |
| 5 | 44 | 40.4 | 498 | 2 | US-09-003-289-9 |
| 6 | 44 | 40.4 | 498 | 5 | PCT-US95-16435-9 |
| 7 | 44 | 40.4 | 612 | 4 | US-09-252-991A-17516 |
| 8 | 43 | 39.4 | 326 | 2 | US-08-671-978A-7 |
| 9 | 42 | 38.5 | 582 | 3 | US-08-194-560-2 |
| 10 | 42 | 38.5 | 2474 | 4 | US-08-265-967C-3 |
| 11 | 42 | 38.5 | 2474 | 4 | US-08-305-790B-4 |
| 12 | 41.5 | 38.1 | 113 | 4 | US-09-530-903C-4 |
| 13 | 41 | 37.6 | 21 | 4 | US-09-337-227C-27 |
| 14 | 41 | 37.6 | 21 | 4 | US-09-723-251A-27 |
| 15 | 41 | 37.6 | 977 | 3 | US-08-335-844A-22 |
| 16 | 41 | 37.6 | 977 | 4 | US-09-129-366-22 |
| 17 | 40 | 36.7 | 70 | 4 | US-09-338-352-7525 |
| 18 | 40 | 36.7 | 765 | 4 | US-09-252-991A-30111 |
| 19 | 40 | 36.7 | 1025 | 2 | US-08-530-792D-23 |
| 20 | 40 | 36.7 | 1026 | 2 | US-08-530-792D-22 |
| 21 | 39.5 | 36.2 | 23 | 2 | US-08-493-235-30 |
| 22 | 39.5 | 36.2 | 220 | 4 | US-03-198-452A-941 |
| 23 | 39.5 | 36.2 | 479 | 5 | PCT-US91-02166-10 |
| 24 | 39.5 | 36.2 | 479 | 5 | PCT-US91-02250-1 |
| 25 | 39.5 | 36.2 | 484 | 2 | US-08-037-816A-22 |
| 26 | 39.5 | 36.2 | 484 | 2 | US-08-530-146-22 |
| 27 | 39.5 | 36.2 | 491 | 2 | US-08-037-816A-18 |

28 39.5 36.2 491 2 US-08-530-146-18 Sequence 18, Appli
29 39.5 36.2 498 2 US-07-916-098A-4 Sequence 4, Appli
30 39.5 36.2 511 4 US-09-796-202-17 Sequence 17, Appli
31 39.5 36.2 516 4 US-08-817-441-48 Sequence 48, Appli
32 39.5 36.2 519 1 US-08-589-446-8 Sequence 8, Appli
33 39.5 36.2 519 1 US-08-444-882-8 Sequence 8, Appli
34 39.5 36.2 519 3 US-08-389-459A-8 Sequence 8, Appli
35 39.5 36.2 519 3 US-08-987-867A-8 Sequence 8, Appli
36 39.5 36.2 520 2 US-08-037-816A-14 Sequence 14, Appli
37 39.5 36.2 520 2 US-08-037-816A-26 Sequence 26, Appli
38 39.5 36.2 520 2 US-08-530-146-14 Sequence 14, Appli
39 39.5 36.2 520 2 US-08-530-146-26 Sequence 26, Appli
40 39.5 36.2 615 3 US-09-257-490-11 Sequence 11, Appli
41 39.5 36.2 617 4 US-08-679-493A-77 Sequence 77, Appli
42 39.5 36.2 826 1 US-08-375-510-2 Sequence 2, Appli
43 39.5 36.2 826 2 US-08-487-657-2 Sequence 2, Appli
44 39.5 36.2 839 3 US-08-472-240A-10 Sequence 10, Appli
45 39.5 36.2 854 4 US-09-309-572-23 Sequence 23, Appli

ALIGNMENTS

RESULT 1
US-09-131-028A-3
; Sequence 3, Application US/09131028A
; Patent No. 6287866
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Mukerji, Pradip
; APPLICANT: Lemmel, Steven A.
; APPLICANT: Leonard, Amanda Eun-Yeong
; APPLICANT: Chaudhary, Sunita
; TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS
; FILE REFERENCE: 6004.US.P1
; CURRENT APPLICATION NUMBER: US/09/131,028A
; CURRENT FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: US 08/064,440
; PRIOR FILING DATE: 1993-05-21
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 215
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-131-028A-3

Query Match 42.2%; Score 46; DB 3; Length 215;
Best Local Similarity 50.0%; Pred. No. 35;
Matches 7; Conservative 2; Mismatches 5; Indels 0; Gaps 0;
Oy 2 WVCNLFKNQWFCNV 15
Db 12 WFCGLRGNEFFCEV 25

RESULT 2
US-09-131-028A-13
; Sequence 13, Application US/09131028A
; Patent No. 6287866
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Mukerji, Pradip
; APPLICANT: Lemmel, Steven A.
; APPLICANT: Leonard, Amanda Eun-Yeong
; TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS
; FILE REFERENCE: 6004.US.P1
; CURRENT APPLICATION NUMBER: US/09/131,028A
; CURRENT FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: US 08/064,440
; PRIOR FILING DATE: 1993-05-21
; NUMBER OF SEQ ID NOS: 22

; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 215
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-131-028A-13

Query Match 42.2%; Score 45; DB 3; Length 215;
Best Local Similarity 50.0%; Pred. No. 35;
Matches 7; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 2 WVCNLFKNQWFCNV 15
DB 12 WFCGLRGNEFFCEV 25

RESULT 3
US-09-137-223A-2
; Sequence 2, Application US/09137223A
; Patent No. 6420525
; GENERAL INFORMATION:
; APPLICANT: Yee, David P
; APPLICANT: Deisher, Theresa A
; TITLE OF INVENTION: TESTIS-SPECIFIC TRANSCRIPTION FACTOR
; TITLE OF INVENTION: ZGCL-1
; FILE REFERENCE: 97-18
; CURRENT APPLICATION NUMBER: US/09/137,223A
; CURRENT FILING DATE: 1998-08-19
; PRIOR APPLICATION NUMBER: 06/056,130
; PRIOR FILING DATE: 1997-08-19
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 478
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-137-223A-2

Query Match 41.3%; Score 45; DB 4; Length 478;
Best Local Similarity 41.7%; Pred. No. 1.1e+02;
Matches 5; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWF 12
DB 322 EWLSSVYKQWF 333

RESULT 4
US-08-357-598-9
; Sequence 9, Application US/08357598
; Patent No. 5705625
; GENERAL INFORMATION:
; APPLICANT: Civin, Curt I.
; APPLICANT: Small, Donald
; TITLE OF INVENTION: NOVEL PROTEIN TYROSINE KINASE, JAK3
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patencin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/357,598
; FILING DATE: 15-DEC-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:

NAME: Haile, Lisa A.
REGISTRATION NUMBER: 38,347
REFERENCE/DOCKET NUMBER: 07265/033001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/678-5070
TELEFAX: 619/678-5099
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 498 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-357-598-9

Query Match 40.4%; Score 44; DB 1; Length 498;
Best Local Similarity 46.2%; Pred. No. 1.5e+02;
Matches 6; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 4 CNLFKNQWFCNVW 16
DB 281 CNLSADKWFGLW 293

RESULT 5
US-09-003-289-9
; Sequence 9, Application US/09003289
; Patent No. 5916792
; GENERAL INFORMATION:
; APPLICANT: Civin, Curt I.
; APPLICANT: Small, Donald
; TITLE OF INVENTION: NOVEL PROTEIN TYROSINE KINASE, JAK3
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/003,289
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/357,598
; FILING DATE: 15-DEC-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 07265/033001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 498 amino acids
; TYPE: amino acid
; STRANDEDNESS: No. 5916792 Relevant
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-003-289-9

Query Match 40.4%; Score 44; DB 2; Length 498;
Best Local Similarity 46.2%; Pred. No. 1.5e+02;
Matches 6; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 4 CNLFKNQWFCNVW 16